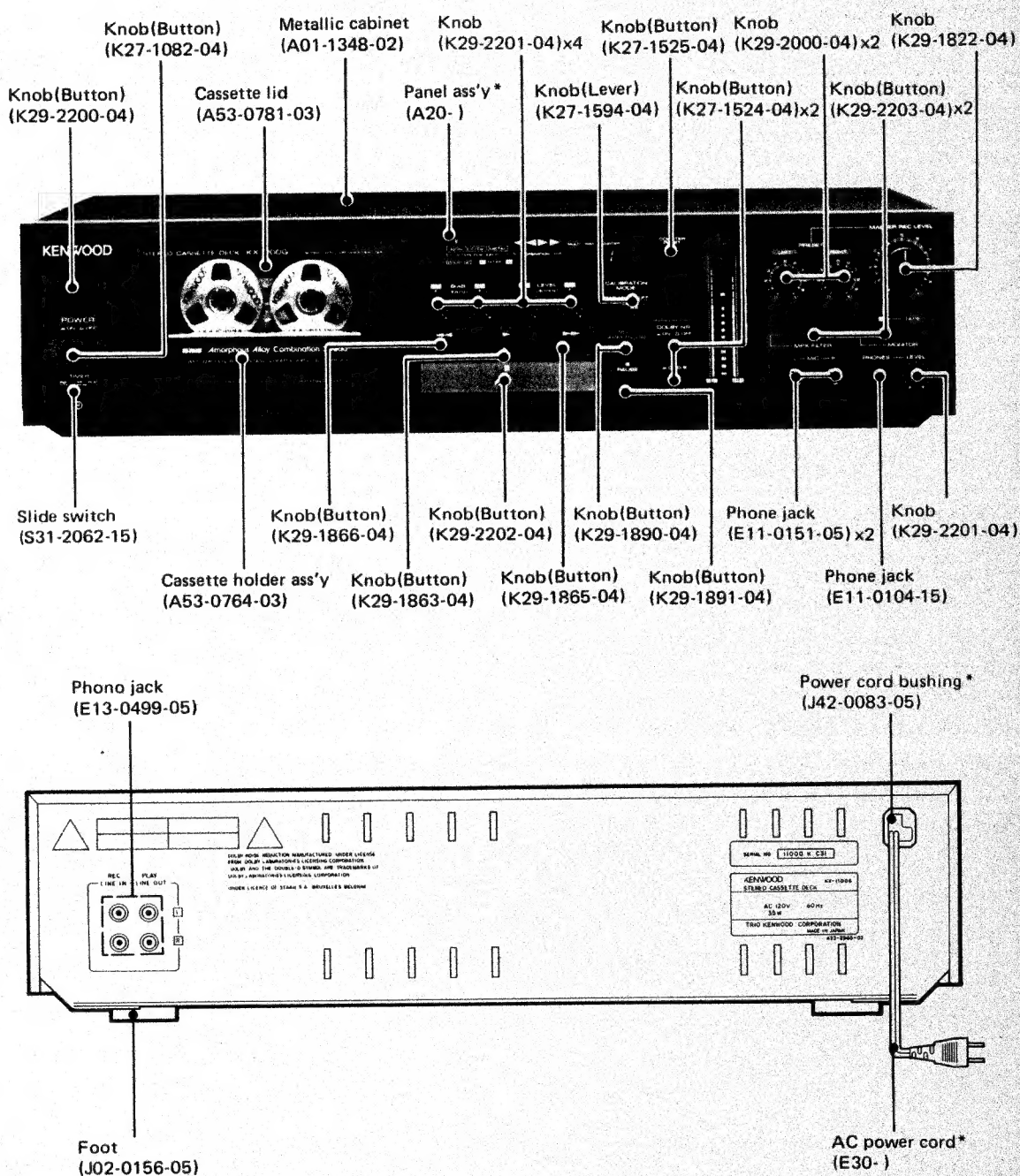


## KENWOOD

# KX-1100G

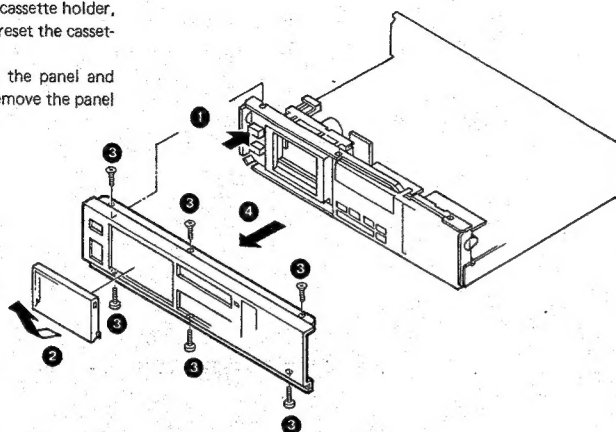
### STEREO CASSETTE DECK



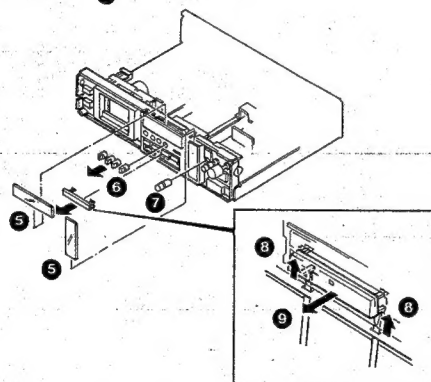
\*Refer to parts list on page 14.

# DISASSEMBLY FOR REPAIR

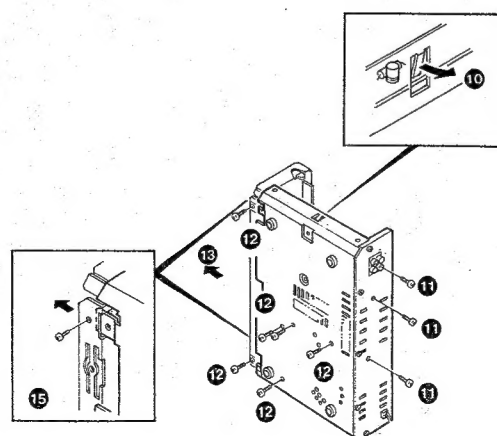
1. Press EJECT knob (1) to pull out the cassette holder, remove the cassette lid (2), and then reset the cassette holder.
2. Remove 3 screws on the upper part of the panel and 3 screws on the lower part (3), and remove the panel (4).



3. Remove the color filters of the level meter and the counter (5).
4. Remove 4 CALIBRATION (BIAS, LEVEL) knobs (6) and PRESET (L) knob (7).
5. Insert (-) screw driver to the escutcheon hole (8), and pull out STOP knob toward you (9).

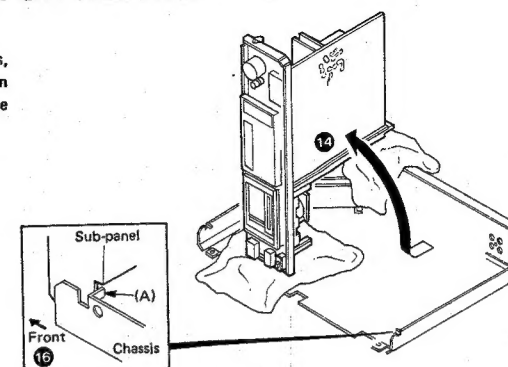


6. Bend the chassis claw outward (10).
7. Remove 3 screws (11) on the rear of the panel and 6 screws (12) on the chassis, and then pull out the sub-panel assembly slightly toward you and set it upright (13, 14).

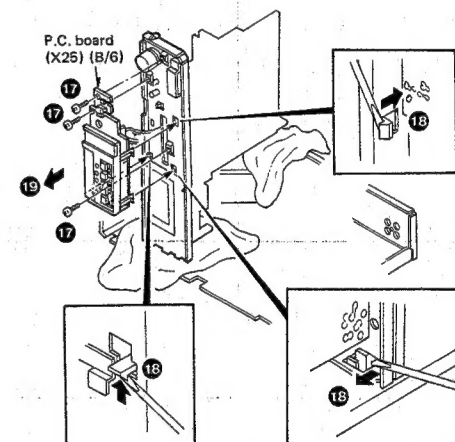


# DISASSEMBLY FOR REPAIR

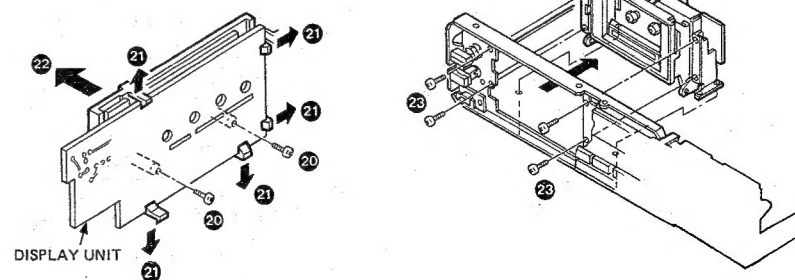
**Note :** When assembling the sub-panel assembly and chassis, insert the chassis's claw to the inside as shown in 15, and press the sub-panel into a projection of the chassis (A) as shown in 16.



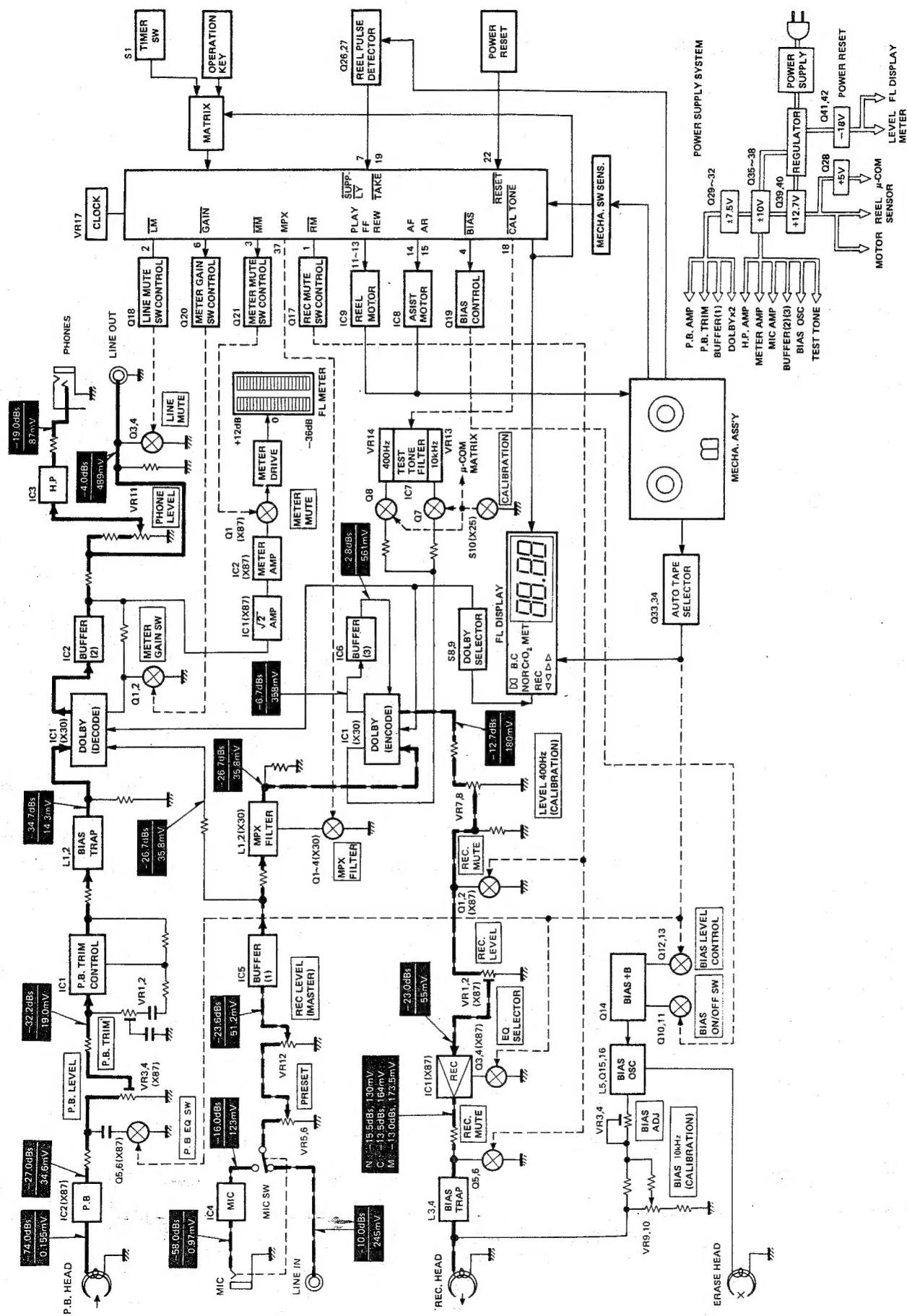
8. Remove 3 screws which fasten the display unit (17), remove 3 hooks fixed on the sub-panel (18), and then pull out the display unit toward you (19).



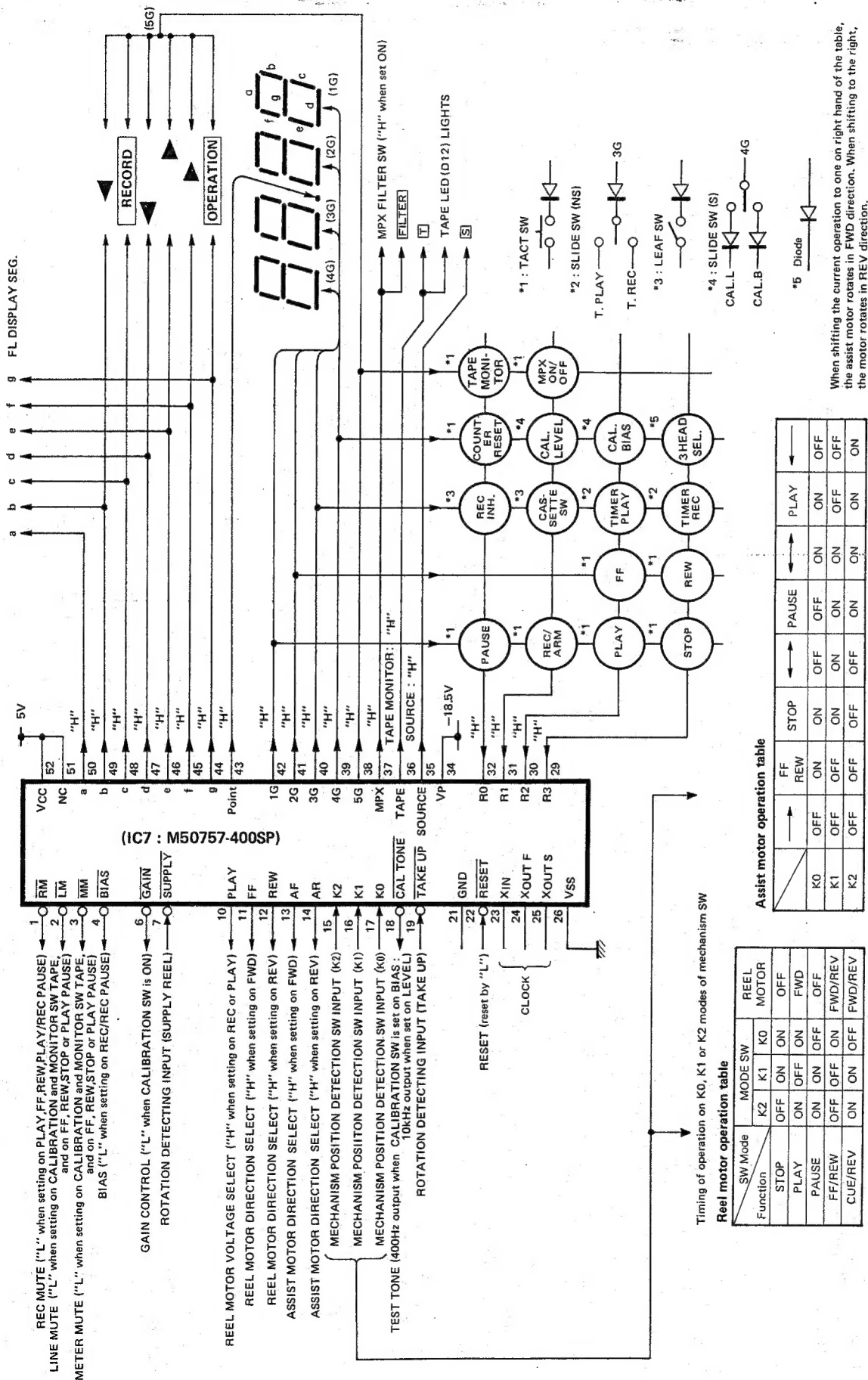
9. Remove 2 screws which fasten the display unit and escutcheon (20).
10. Remove 5 hooks (21), and disassemble the display unit and escutcheon (22).
11. Remove 4 screws on both ends of front side of the sub-panel (23), and remove the mechanism assembly to the rear side.



## BLOCK / LEVEL DIAGRAM



## CIRCUIT DESCRIPTION





## CIRCUIT DESCRIPTION

## Description of components

## CASSETTE (X26-1132-70)

Components	Use/Function	Operation/Condition/Interchangeability												
Q1,Q2	METER GAIN SW	Controlled by Q20. ON when CALIBRATION SW (S10 : X25-2462-70) is ON to increase the gain of the replay system by approximately 19.5dB. (refer to Q20)												
Q3,Q4	LINE MUTE SW	Controlled by Q18. (refer to Q18) <ul style="list-style-type: none"><li>• ON when MONITOR SW is set on TAPE and STOP,FF,REW or PLAY PAUSE.</li><li>• Instant ON when operating MONITOR SW (on PLAY or REC).</li><li>• ON when setting on CALIBRATION.</li><li>• ON when setting on POWER ON/OFF.</li></ul>												
Q5,Q6	REC MUTE SW	Controlled by Q17. OFF when setting on REC and ON when setting on other modes (including REC PAUSE). (refer to Q17)												
Q7	Impedance converter for test mode	To lower output impedance using the emitter follower. To output 400Hz square-wave from CAL TONE control terminal when CALIBRATION SW (S10) is set on LEVEL and 10kHz square-wave when set on BIAS, and input it to Q7 base.												
Q8,Q9	Select SW for test tone	Controlled by CALIBRATION SW (S10) <table><tr><td>CAL. SW</td><td>OFF</td><td>LEVEL</td><td>BIAS</td></tr><tr><td>Q8</td><td>ON</td><td>OFF</td><td>ON</td></tr><tr><td>Q9</td><td>ON</td><td>ON</td><td>OFF</td></tr></table>	CAL. SW	OFF	LEVEL	BIAS	Q8	ON	OFF	ON	Q9	ON	ON	OFF
CAL. SW	OFF	LEVEL	BIAS											
Q8	ON	OFF	ON											
Q9	ON	ON	OFF											
Q10,11,19	BIAS oscillator control and SW	To output "L" from BIAS control terminal of 4 pin of microprocessor IC10 when set on REC (including REC PAUSE) and "H" when set on other modes, to control as follows : <table><tr><td>MODE</td><td>REC/REC PAUSE</td><td>OTHER MODES</td></tr><tr><td>Q19</td><td>ON</td><td>OFF</td></tr><tr><td>Q10</td><td>ON</td><td>OFF</td></tr><tr><td>Q11</td><td>OFF</td><td>ON</td></tr></table>	MODE	REC/REC PAUSE	OTHER MODES	Q19	ON	OFF	Q10	ON	OFF	Q11	OFF	ON
MODE	REC/REC PAUSE	OTHER MODES												
Q19	ON	OFF												
Q10	ON	OFF												
Q11	OFF	ON												
Q12,Q13	BIAS oscillating level select SW	Controlled by AUTO TAPE SEL: Q33, Q34. <table><tr><td>TAPE</td><td>NORMAL</td><td>CrO<sub>2</sub></td><td>METAL</td></tr><tr><td>Q12</td><td>OFF</td><td>ON</td><td>OFF</td></tr><tr><td>Q13</td><td>ON</td><td>OFF</td><td>OFF</td></tr></table>	TAPE	NORMAL	CrO <sub>2</sub>	METAL	Q12	OFF	ON	OFF	Q13	ON	OFF	OFF
TAPE	NORMAL	CrO <sub>2</sub>	METAL											
Q12	OFF	ON	OFF											
Q13	ON	OFF	OFF											
Q14	BIAS oscillator power supply													
Q15,Q16	For BIAS oscillating	To drive the primary side of BIAS oscillating transformer by push/pull.												
Q17	REC MUTE control	To output "L" from RM control terminal of 1 pin of microprocessor IC10 when set on PLAY, FF, REW, PLAY PAUSE or REC PAUSE, setting Q17 ON. To apply "H" to Q5, Q6 bases, setting Q5, Q6 ON.												
Q18	LINE MUTE control	To output "L" from LM control terminal of 2 pin of microprocessor IC10 when MONITOR SW is set on TAPE, and on STOP,FF,REW or PLAY PAUSE, and on CALIBRATION, setting Q17 ON. To apply "H" to Q3, Q4 bases, setting Q3, Q4 ON.												
Q20	METER GAIN control	To output "L" from GAIN control terminal of 6 pin of microprocessor IC10 when CALIBRATION SW (S10 : X25-2462-70) is ON, setting Q20 ON. To apply "H" to Q1, Q2 bases, setting Q1, Q2 ON.												
Q21	METER MUTE control	To output "L" from MM control terminal of 3 pin of microprocessor IC10 when set on modes other than PLAY, REC, MONITOR (SOURCE), REC PAUSE (SOURCE only) or CALIBRATION, setting Q21 ON. To apply "H" to Q1 (X87-1020-01) base, setting Q1 ON.												
Q22	Reel motor driving control voltage control	ON when set on PLAY or REC. To output "H" from PLAY control terminal of No. 10 pin of microprocessor IC10, setting Q22 ON and voltage on 4 pin of IC9 at 3.9V. OFF when set on other modes. To set voltage on 4 pin of IC9 at 5.4~6.0V												
Q23~Q25	Reset	To input "L" to RESET of 22 pin of microcomputer IC10 when POWER ON/OFF, resetting the microprocessor.												
Q26,Q27	Rotation DET. AMP.	To obtain switching signals (5 pulse/rotation) proportional to rotation speed of the reel base through the mechanism and shape their waveforms.												
Q28	+ 5V power supply	Power supply to stabilize Hi voltages in microprocessor and fluorescent display circuits.												

## CIRCUIT DESCRIPTION

Components	Use/Function	Operation/Condition/Interchangeability												
Q29,Q31	+ 7.5V power supply	Power supply to stabilize the signal system amplifier.												
Q30,Q32	- 7.5V power supply	Power supply to stabilize the signal system amplifier.												
Q33,Q34	AUTO TAPE SEL. control	<table><tr><td>TAPE</td><td>NORMAL</td><td>CrO<sub>2</sub></td><td>METAL</td></tr><tr><td>Q33</td><td>OFF</td><td>ON</td><td>ON</td></tr><tr><td>Q34</td><td>OFF</td><td>ON</td><td>OFF</td></tr></table>	TAPE	NORMAL	CrO <sub>2</sub>	METAL	Q33	OFF	ON	ON	Q34	OFF	ON	OFF
TAPE	NORMAL	CrO <sub>2</sub>	METAL											
Q33	OFF	ON	ON											
Q34	OFF	ON	OFF											
Q35,Q37	+ 10V power supply	Power supply to stabilize the signal system amp.												
Q36,Q38	-10V power supply	Power supply to stabilize the signal system amp.												
Q39,Q40	+ 12.7V power supply	Power supply to stabilize MOTOR system.												
Q41,Q42	-18V power supply	Power supply to stabilize Lo voltages in the fluorescent display circuit.												
IC1	PLAY TRIM CONTROL (Replay F special adjustment)	Tone control amplifier (high band) used in the amplifier, performing high-pass adjustment for Replay F special.												
IC2	BUFF. AMP.	For Dolby DECODE.												
IC3	Headphone AMP.													
IC4	MIC AMP.													
IC5	BUFF. AMP.	For MPX FILTER.												
IC6	BUFF. AMP.	For Dolby DECODE.												
IC7	Filter for test tone													
IC8	Assist motor driving													
IC9	Reel motor driving													
IC10	Microcomputer	Refer to description on terminals of microprocessor M50757-400SP.												

## DISPLAY (X25-2462-70)

Components	Use/Function	Operation/Condition/Interchangeability
Q1,Q2	Peak hold reset	To form a flip-flop circuit in Q1, Q2 and reset Q2 by turning it ON every three seconds.
Q3,Q4	Peak hold control	ON when CALIBRATION SW (S10) is set on BIAS or LEVEL, cancelling the peak hold circuit.
IC1	Level meter driving	2 ch dynamic.

## DOLBY (X30-1230-01, -02)

Components	Use/Function	Operation/Condition/Interchangeability
Q1~Q4	MPX FILTER SW	To output "H" from MPX control terminal of 37 pin of microprocessor IC10 when TIMER REC and MPX FILTER SW (S11 : X25-2462-70) is ON, setting Q1~Q4 and FILTER ON.
IC1	DOLBY B/C AMP.	Functions as DECODE and ENCODE.

## METER AMP. (X87-1020-01)

Components	Use/Function	Operation/Condition/Interchangeability
Q1	METER MUTE SW	ON when set on modes other than PLAY, REC, MONITOR (SOURCE), REC PAUSE (SOURCE only) or CALIBRATION. Refer to Q21 (X87-1020-01).
IC1	1/2 exponent compression AMP.	To output double wave rectified voltages proportional to 1/2 exponent of AC input signals.
IC2	DC AMP.	To amplify IC1 output voltages to required level.

## CIRCUIT DESCRIPTION

## REC/PLAY AMP. (X87-1030-02)

Components	Use/Function	Operation/Condition/Interchangeability
Q1, Q2	REC MUTE SW	To output "L" from RM control terminal of 1 pin of microcomputer (X26-1132-70) when set on PLAY, FF, REW, PLAY PAUSE or REC PAUSE, setting Q17 (X26-1132-70) ON. To apply "H" to Q1, Q2 bases, setting Q1, Q2 ON.
Q3, Q4	Equalizer select SW (for METAL)	OFF when set on METAL TAPE and ON when setting on NORMAL/CrO <sub>2</sub> tape.
Q5, Q6	REC/PLAY equalizer select SW	Controlled by AUTO TAPE SEL. (X26-1132-70) of Q33, Q34. OFF when setting on NORMAL tape (120μs) and ON when setting on CrO <sub>2</sub> /METAL tape.
IC1	Recording equalizer AMP.	
IC2	Playback equalizer AMP.	

## Dolby circuit

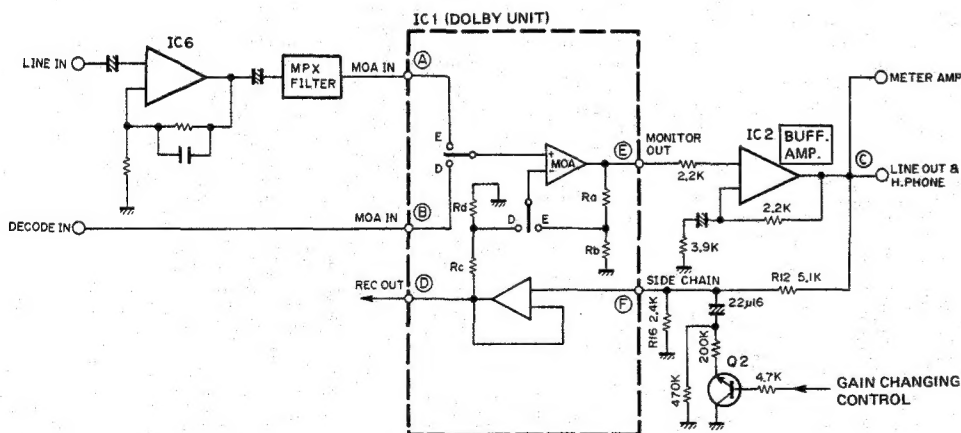
The buffer amplifier prevents distortion against load current from intensifying and at the same time improves dynamic range. For this purpose, Dolby unit is driven by  $\pm 7.5V$  and buffer amplifier (IC2) by  $\pm 10V$ .

During DECODE, the changing SW in the Dolby unit is connected to DECODE side. Gain from point (B) to (C) is determined from split resistances to the side chain of  $5.1k\Omega$  (R12) and  $2.4k\Omega$  (R16) as well as feedback determined by resistors R<sub>c</sub> and R<sub>d</sub> in Dolby IC, as follows,

Thus, (B)  $\rightarrow$  (C) gain is 31.9dB, buffer amplifier (IC2) gain 3.9dB and (B)  $\rightarrow$  (E) gain 28dB.

Q2 is a switch to increase METER LEVEL by 19.5dB when setting on CALIBRATION. When Q2 is ON, feedback decreases by 19.5dB and meter level at points (E) and (B) increases by 19.5dB.

During ENCODE, the changing switch in Dolby unit is connected to ENCODE side. MOA gain during ENCODE is determined from feedback which is determined by R<sub>a</sub> and R<sub>b</sub>, as follows :



Note : KX-1100G is operated by setting IC1 of Dolby unit (X30-1230-01) on ENCODE and IC1 of Dolby unit (X30-1230-02) on DECODE.

## ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION		TAPE: NORMAL, DOLBY: OFF, INPUT: LINE, CALIBRATION: CENTER				0dBs = 0.775V	
I REC/PLAY HEAD							
[1]	DEMAGNETIZATION	-	-	POWER: OFF Remove the cassette door.	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagnetizer.	
[2]	CLEANING	-	-	PLAY	REC/PLAY head erase head, capstan, pinch roller.	Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly dampened with alcohol.	
[3]	AZIMUTH	MTT-114 10kHz, -10dB	(B)	PLAY	Azimuth adjustment screw	Adjust the azimuth adjustment screw so that the output voltage is maximized in both forward and reverse direction.	(a)
DC MOTOR							
(1)	TAPE SPEED	MTT-111	(B)	PLAY	Trimming potentiometer in the DC motor	Adjust the tape speed so that a 3kHz signal is produced at the center of the tape.	
II PC BOARD (X87-1020-01, X87-1030-02, X26-1132-70)							
<1>	PLAYBACK LEVEL	MTT-150	(B)	PLAY	(X87-1030B/2) VR3 (L) VR4 (R)	Output level: -1.3dBs	
		MTT-256				Output level: -4.0dBs	
		MTT-256V				Output level: 0dBs	
<2>	PLAY TRIM CONTROL	MTT-256 MTT-256V 315Hz, 10kHz	(B)	PLAY	(X26-1132) VR1 (L) VR2 (R)	Adjust the variable resistors so that the level of 10kHz is 0.2dBs to the level of 315kHz.	
<3>	BIAS CURRENT	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	Adjust REC and BALANCE so that the REC monitor output becomes -24dBs at 1kHz, then record and reproduce signal of 1kHz and 10kHz in alternation.	(X26-1132) VR3 (L) VR4 (R)	Record 1kHz and 10kHz in alternation and adjust the variable resistors which control the bias current so that the same playback level is obtained.	
<4>	RECORD LEVEL	(A) 1kHz, -30dBs	(B)	Record and reproduce a 1kHz signal under the conditions set in <2>.	(X87-1030A/2) VR1 (L) VR2 (R)	Adjust the variable resistors so that a playback level of -24dBs is obtained.	
<5>	FL METER(L)	(A) 1kHz, -10dBs	(B)	REC PAUSE Adjust REC and LEVEL VR so that the monitor output is -4.7dBs at 1kHz.	(X87-1020) VR1	0dB FL segment is completely lit.	
	FL METER(R)				(X26-1132) VR13		
<6>	TEST TONE	-	-	1) CALIBRATION LEVEL	(X26-1132) VR14	-22.2dBs (TP3)	(b) P10
				2) CALIBRATION SR: BIAS	VR15	-22.0dBs (TP3)	
				3) CALIBRATION SP: LEVEL	VR16	-22.2dBs (TP4)	
III $\mu$ -COW CLOCK ADJ							
(1)	CLOCK ADJ	-	-	CALIBRATION SR: BIAS	(X26-1132) VR17	TP3/TP4 $\rightarrow$ 10kHz	(c) P10

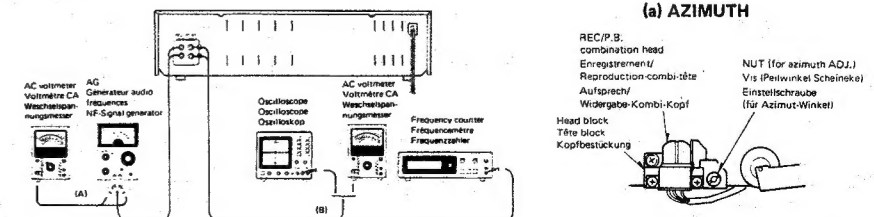
## REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETO -PHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG
SECTION DU MAGNETOPHONE		TAPE: NORMAL, DOLBY: OFF, ENTREE: LINE, CALIBRAGE: MILIEU				0dBs = 0.775V	
I TÊTE D'ENREGISTREMENT/LECTURE							
[1]	DEMAGNETISATION	-	-	POWER: OFF Eloigner la porte.	Tête D'ENREGISTREMENT/ LECTURE	Démagnétiser la tête D'ENREGISTREMENT/LECTURE avec un démagnétiseur de tête.	
[2]	NETTOYAGE	-	-	PLAY	Tête D'ENREGISTREMENT/ LECTURE (tête d'effacement, cabestan, galetpresseur.	Nettoyer la tête D'ENREGISTREMENT/LECTURE la tête d'effacement, le cabestan et le galetpresseur avec un coton-tige légèrement imbibé d'alcool.	
[3]	AZIMUT	MTT-114 10kHz, -10dB	(B)	PLAY	Vis d'azimut	Ajuster la vis de réglage de l'azimut de façon que la tension de sortie soit maximale à la fois en avant et en arrière, de la bande d'essai.	(a)
MOTEUR CC							
(1)	VITESSE DE DEFILEMENT	MTT-111	(B)	PLAY	Résistance ajustable du moteur CC	Régler la vitesse de bande de façon qu'un signal de 3kHz soit produit au centre de la bande.	
II PLAQUE IMPRIMER (X87-1020-01, X87-1030-02, X26-1132-70)							
<1>	NIVEAU DE LECTURE	MTT-150	(B)	PLAY	(X87-1030B/2) VR3 (G) VR4 (D)	Niveau de sortie: -1,3dBs	
		MTT-256				Niveau de sortie: -4,0dBs	
		MTT-256U				Niveau de sortie: 0dBs	
<2>	COMMANDE D'APAIRAGE DE LECTURE	MTT-256 MTT-256U 315Hz, 10kHz	(B)	PLAY	(X26-1132) VR1 (G) VR2 (D)	Ajuster les résistances variables de manière à ce que le niveau de 10kHz soit 0,2dBs au niveau de 315kHz.	
<3>	COURANT DE POLARISATION	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	Régler REC et BALANCE de façon que la sortie de moniteur REC soit de -24dBs à 1kHz, puis enregistrer et reproduire des signaux de 1kHz et 10kHz en alternance.	(X26-1132) VR3 (G) VR4 (D)	Enregistrer un signal de 1kHz et 10kHz en alternance et ajuster les résistances variables qui commandent le courant de polarité de façon à obtenir le même niveau de lecture.	
<4>	NIVEAU D'ENREGISTREMENT	(A) 1kHz, -30dBs	(B)	Enregistrer et reproduire un signal de 1kHz dans les conditions précisées en <2>.	(X87-1030A/2) VR1 (G) VR2 (D)	Ajuster les résistances variables de façon à obtenir un niveau de lecture de -24dBs.	
<5>	FL METER(G)	(A) 1kHz, -10dBs	(B)	REC PAUSE Ajuster REC et NIVEAU VR de façon à ce que la sortie moniteur soit de -4,7dBs à 1kHz.	(X87-1020) VR1	Le segment de FL 0dB soit complètement allumé.	
	PL METER(D)			(X26-1132) VR13			
<6>	TEST TONE	-	-	1) CALIBRATION SW: LEVEL	(X26-1132) VR14	-22,2dBs	(b) P10
				2) CALIBRATION SW: BIAS	VR15	-22,0dBs	
				3) CALIBRATION SW: LEVEL	VR16	-22,2dBs	
III µ-COM MONTRE REGLAGE							
(1)	MONTRE REGLAGE	-	-	-	(X26-1132) VR17	TP3/TP4 → 10kHz	(c) P10

## ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERT-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTEN-DECK-ABTEILUNG		TAPE: NORMAL, DOLBY: OFF, EINGANG: LINE, KALIBREIRUNG: MITTE				0dBs = 0,775V	
I AUFNAHME/WIEDERGABE-KOPF							
[1]	ENTMAGNETISIERUNG	-	-	POWER: OFF Den Kassettenfach deckel oben herausziehen.	AUFNAHME/WIEDERGABE-Kopf	Entmagnetisierung von dem AUFNAHME/WIEDERGABE-Kopf mit einem Tonkopf Entmagnetisierungsdrossel.	
[2]	REINIGUNG	-	-	PLAY	AUFNAHME/WIEDERGABE-Kopf Löschkopf, Tonwelle, Andruckrolle.	AUFNAHME/WIEDERGABE-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem leicht mit Alkohol befeuchteten Wattebausch reinigen.	
[3]	AZIMUT-EINSTELLUNG	MTT-114 10kHz, -10dB	(B)	PLAY	Azimut-Einstellschraube	Die Azimut-Justierschraube so einstellen, daß die maximale Ausgangsspannung in Vorwärts-Reversrichtung erzielt.	(a)
GLEICHSTROMMOTOR							
(1)	BANDGESCHWINDIGKEIT	MTT-111	(B)	PLAY	Trimmer potentiometer am Gleichstrommotor	Die Bandgeschwindigkeit so justieren, daß ein 3kHz Signal auf der Mitte des Bands erzeugt wird.	
II GEDRUCKTE SCHALTPLATTE (X87-1020-01, X87-1030-02, X26-1132-70)							
<1>	WIEDERGABE-PEGEL	MTT-150	(B)	PLAY	(X87-1030B/2) VR3 (L) VR4 (R)	Ausgangsspegel: -1,3dBs	
		MTT-256				Ausgangsspegel: -4,0dBs	
		MTT-256U				Ausgangsspegel: 0dBs	
<2>	WIEDERGABE-TRIMMERREGLER	MTT-256U 315Hz, 10kHz	(B)	PLAY	(X26-1132) VR1 (L) VR2 (R)	Die Regelwiderstände so einstellen, daß der pegel von 10kHz 0,2dBs zum pegel von 315kHz beträgt.	
<3>	LEERLAUFSTROM	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	REC und BALANCE so justieren, daß der REC Monitorausgang -24dBs bei 1kHz wird, und danach abwechselnd Signale von 1kHz und 10kHz aufnehmen und wiedergeben.	(X26-1132) VR3 (L) VR4 (R)	Signale von 1kHz und 10kHz abwechselnd aufnehmen und die Regelwiderstände, die den Vormagnetisierungsstrom regeln, so justieren, daß der gleiche Wiedergabepegel erzielt wird.	
<4>	AUFNAHMEPEGEL (X87-1030-01A/2)	(A) 1kHz, -30dBs	(B)	Ein 1kHz Signal unter den in Punkt <2> beschriebenen Bedingungen aufnehmen und reproduzieren.	(X87-1030A/2) VR1 (L) VR2 (R)	Die Regelwiderstände so justieren, daß ein wiedergabepegel von -24dBs erzielt wird.	
<5>	FL METER(L)	(A) 1kHz, -10dBs	(B)	REC PAUSE REC und PEGEL VR so einstellen, daß der Monitorausgang bei 1kHz, -4,7dBs ist.	(X87-1020) VR1	Die Regelwiderstände so justieren, daß das 0dB Segment vollständig leuchtet.	
	FL METER(R)				(X26-1132) VR13		
<6>	TEST TONE	-	-	1) CALIBRATION SW: LEVEL 2) CALIBRATION SW: BIAS 3) CALIBRATION SW: LEVEL	(X26-1132) VR14 VR15 VR16	-22,2dBs (TP3) -22,0dBs (TP3) -22,2dBs (TP4)	(b) P10
III µ-COM UHR ABGLEICH							
(1)	UHR ABGLEICH	-	-	-	(X26-1132) VR17	TP3/TP4 → 10kHz	(c) P10

## SYSTEM CONNECTION



(X26-1132-70)

IC1	8	7.6V
IC2	8	10.2V
IC3	8	10.2V
IC4	4	-10.3V
	8	10.4V
IC5	8	7.6V
IC6	1	0.6V(CAL) 0V(OTHERS)
	4	-10.3V
	7	0.6V(CAL) 0V(OTHERS)
	8	10.3V
IC7	8	10.2V
IC8	7	9.7V
	8	9.7V
IC9	4	4V(PLAY, REC) 6.2V(FF, REW) 5.7V(OTHERS)
	7	9.7V
	8	9.7V
IC10	51	5V
	52	5V

(X25-2462-70)

	B	C	E
Q1	-	-	-18.3V
Q2	-	-	-18.3V
Q3	-1.3V(CAL ON)	-	-
	-0.5V(CAL OFF)	-	-
Q4	-	-	-18.3V

IC1

1	-18.3V
3	0V
25	-3.3V
26	-16.3V
27	-17.3V
28	-17.3V

(X87-1030-02)

IC1

6	-10V
	5.9V(N)
9	0V(C)
	-16.3V(M)
11	10.2V

IC2

1	0V
2	-
3	-
4	-7.5V
5	-
6	-
7	0V
8	7.5V

(X87-1020-01)

IC1

1	-
2	-
3	0.7V
4	2V
5	-
6	2V
7	0.7V
8	-
9	10.2V

IC2

1	0V
2	0V
3	3V
4	-10.3V
5	0V
6	0V
7	0V
8	10.3V

(X30-1230-01, -02)

IC1

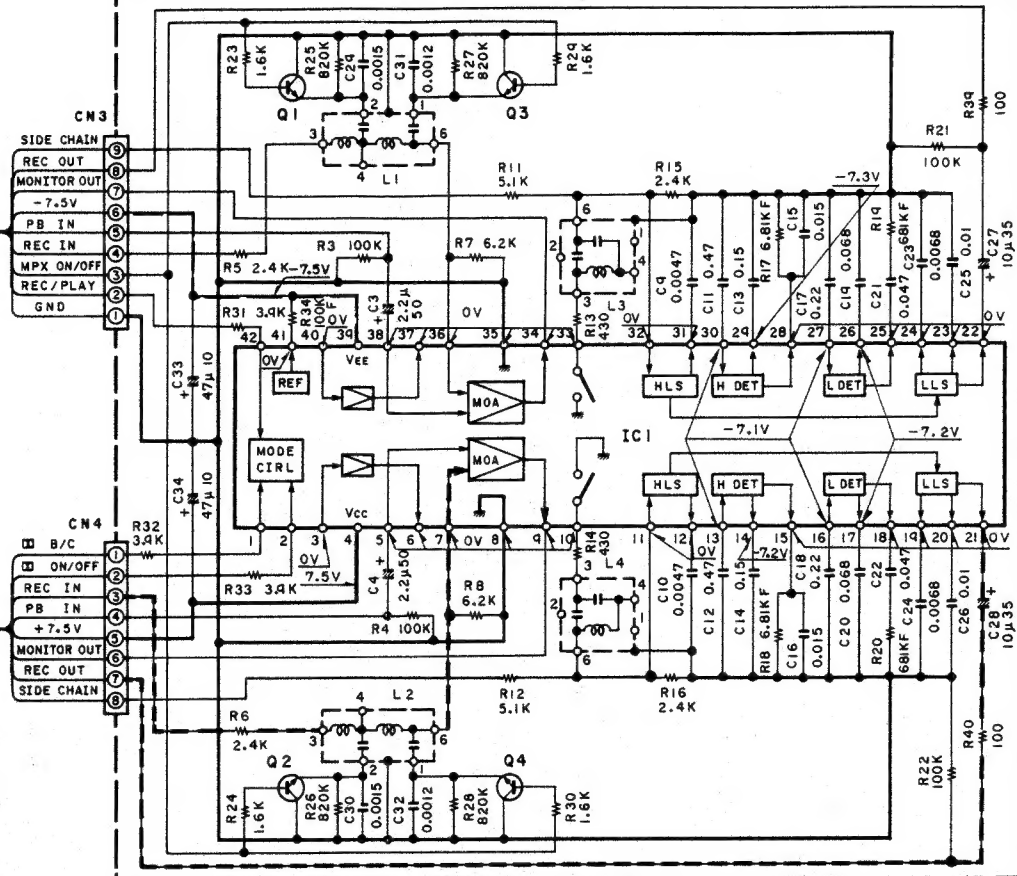
1	-	22	0V
2	-	23	0V
3	0V	24	0V
4	7.5V	25	0V
5	0V	26	-7.2V
6	0V	27	-7.1V
7	0V	28	0V
8	0V	29	-7.3V
9	0V	30	-7.1V
10	0V	31	0V
11	0V	32	0V
12	0V	33	0V
13	-7.1V	34	0V
14	-7.2V	35	0V
15	0V	36	0V
16	-7.1V	37	0V
17	-7.2V	38	0V
18	0V	39	-7.5V
19	0V	40	0V
20	0V	41	0V
21	0V	42	-

	B	C	E
Q7	-	10.2V	-
Q11	-	-	-10.3V
Q12	-	-	-10.3V
Q13	-	-	-10.3V
Q17	-	-17.6B(REC) 4.6V(OTHERS)	-
	-	-17.6V(S, P.R., R. PAUSE) 4.6V(OTHERS)	-
Q18	-	5V(R, R. PAUSE) -10.2V(OTHERS)	5V
	-	5V(CAL) -5V(OTHERS)	5V
Q21	-	-	5V
Q28	-	-	5V
Q29	8.3V	10.2V	7.6V
Q30	-8.3V	-10.3V	7.6
Q33	-	-18V(N,C) 7V(M)	-
	-	-18V(N,C) 7V(M)	-
Q35	-	12.7V	10.2V
Q36	-	-	-10.3V
Q39	-	-	-12.7V
Q42	-	-	-18.3V

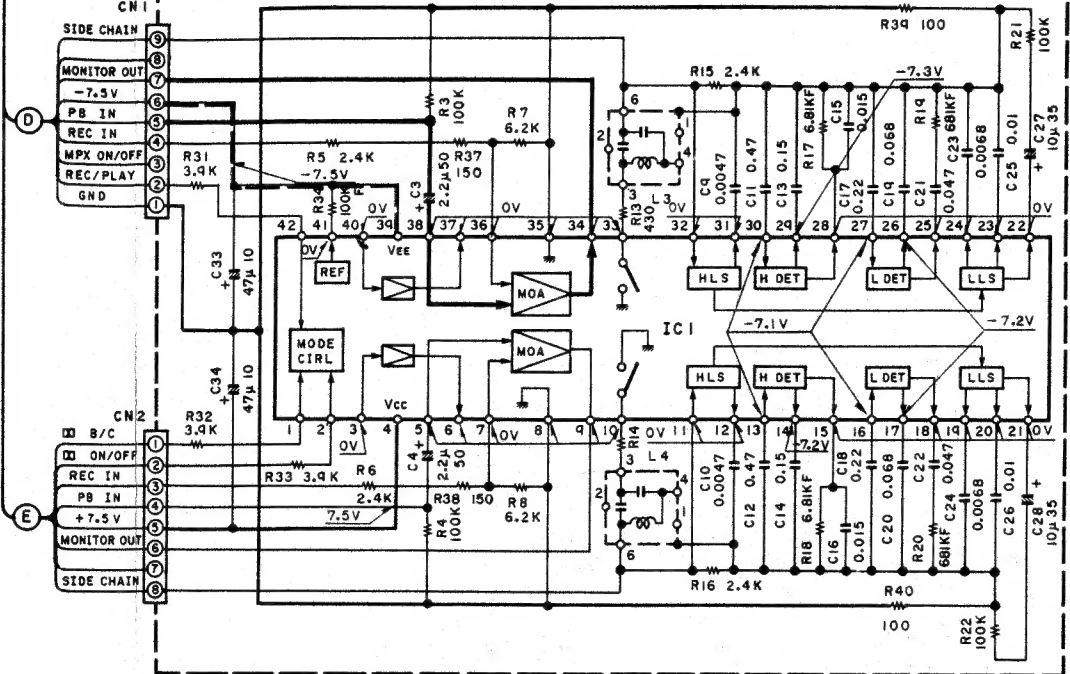
	D	S	G
Q31	10.3V	8.3V	8.3V
Q32	-8.3V	-10.3V	-10.3V
Q37	12.7V	-	-



(X30-1230-01) DOLBY UNIT (ENCODE)



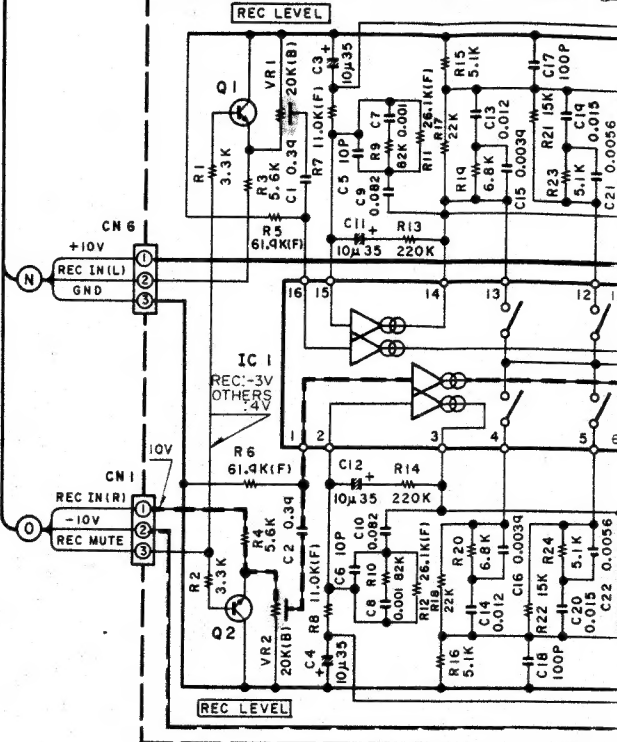
(X30-1230-02) DOLBY UNIT (DECODE)



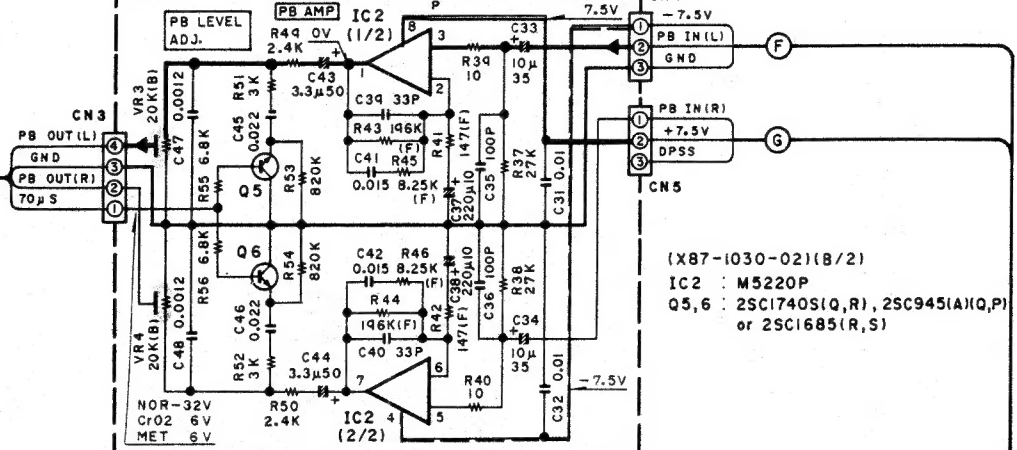
(X30-1230-01)  
IC1 : CX20187  
IC2 : CX20187  
Q1~4 : 2SC1740S(Q,R)

(X30-1230-02)  
IC1 : CX20187

(X87-1030-02)(A/2) REC AMP UNIT

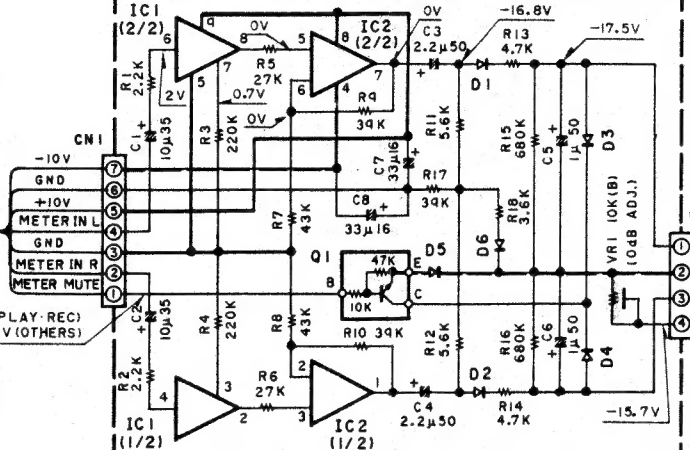


(X87-1030-02)(B/2) PB AMP UNIT



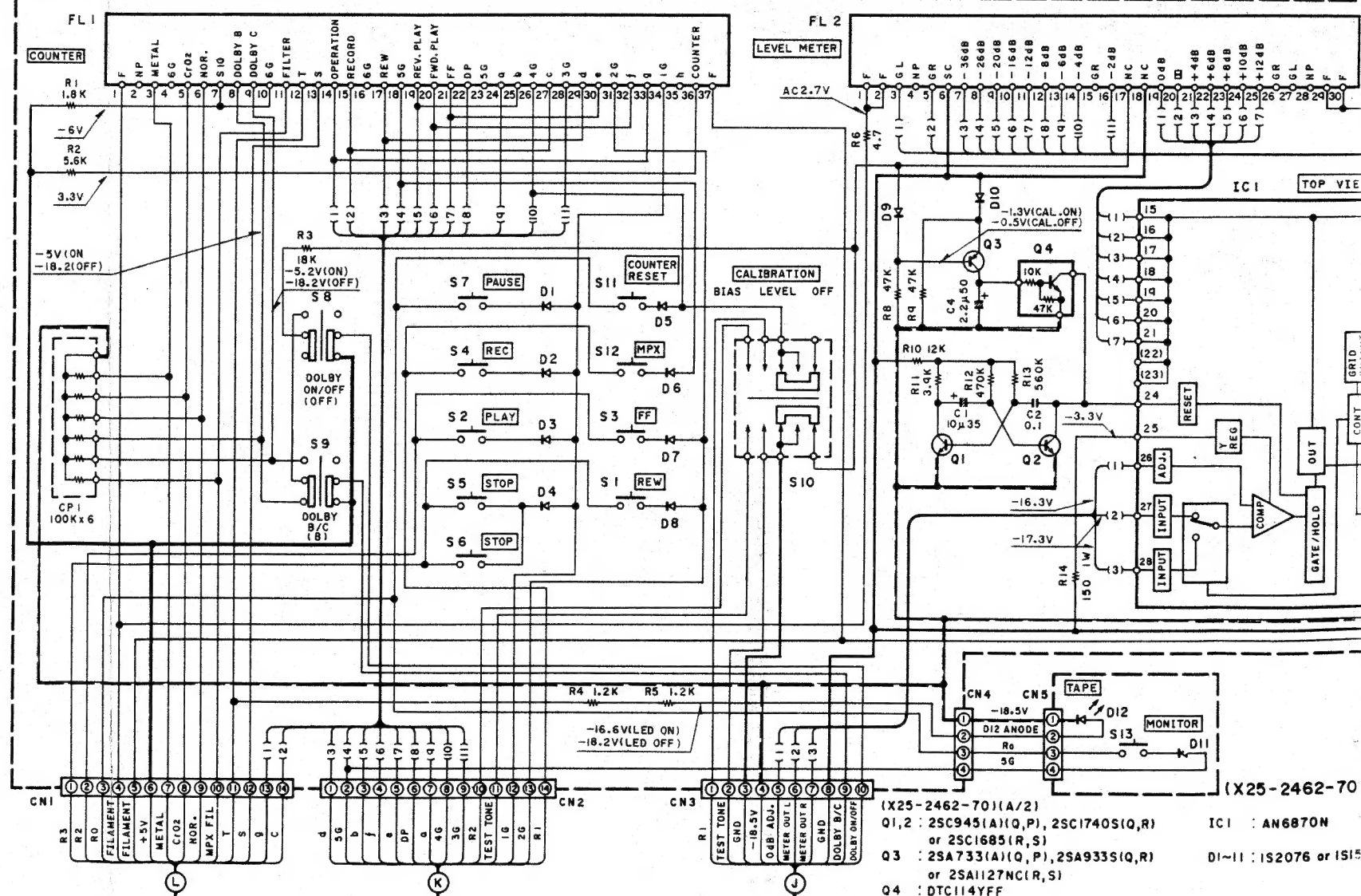
(X87-1030-02)(B/2)  
IC2 : M5220P  
Q5,6 : 2SC1740S(Q,R), 2SC945(A)(Q,P)  
or 2SC1685(R,S)

(X87-1020-01) METER AMP UNIT

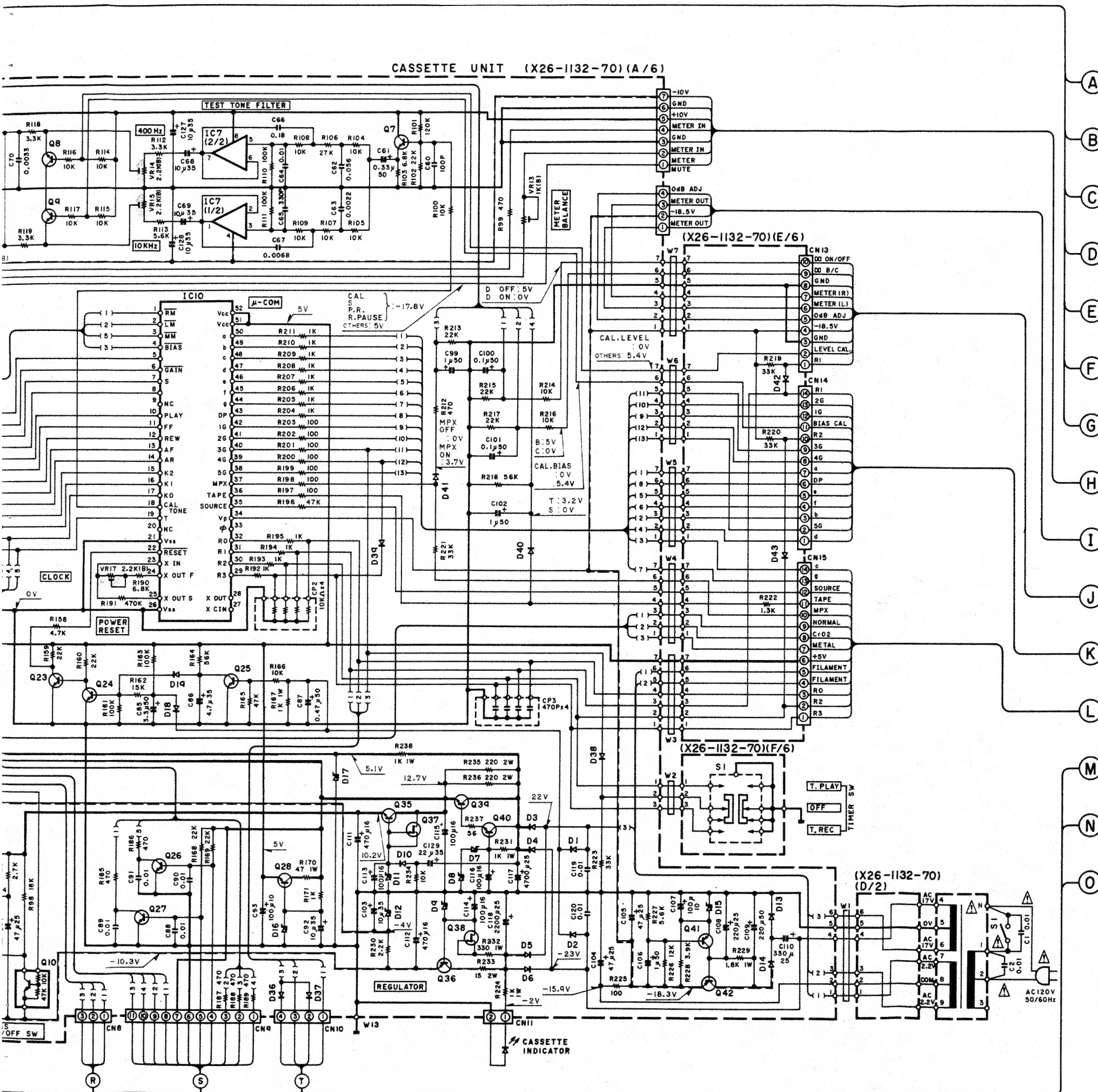


(X87-1020-01)  
IC1 : BA6138  
IC2 : M5218P, AN6556  
or NJM4558D  
DI~6 : 1SS176  
Q1 : DTC114YFF

(X25-2462-70)(A/2) DISPLAY UNIT



(X25-2462-70)(A/2)  
Q1,2 : 2SC945(A)(Q,P), 2SC1740S(Q,R)  
or 2SC1685(R,S)  
Q3 : 2SA733(A)(Q,P), 2SA933S(Q,R)  
or 2SA1127NC(R,S)  
Q4 : DTC114YFF  
IC1 : AN6870N  
DI~11 : 1S2076 or 1S15



2SA1127NC  
2SA733  
2SC1685  
2SC2060  
2SC945  
2SD1302  
2SD863

2SB772\*1  
2SD882\*1

DTC114YFF

2SA933S  
2SC1740S

2SK163  
2SK363  
2SK364

NJM4558D

AN6556  
M5218P  
M5220P

M5218L

BA6209  
BA6229

M50757-400SP

- DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Une cassette étant insérée en mode de lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les tensions c.c. du circuit de polarité doivent être mesurées. l'appareil étant en mode d'enregistrement.
- Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

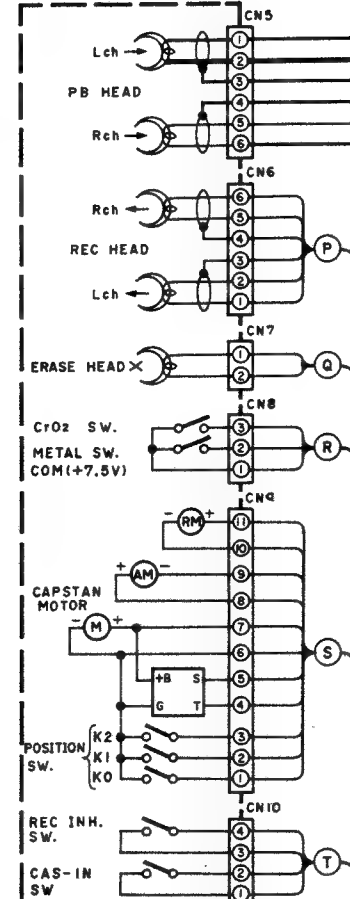
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

**KX-1100G**

**KENWOOD**



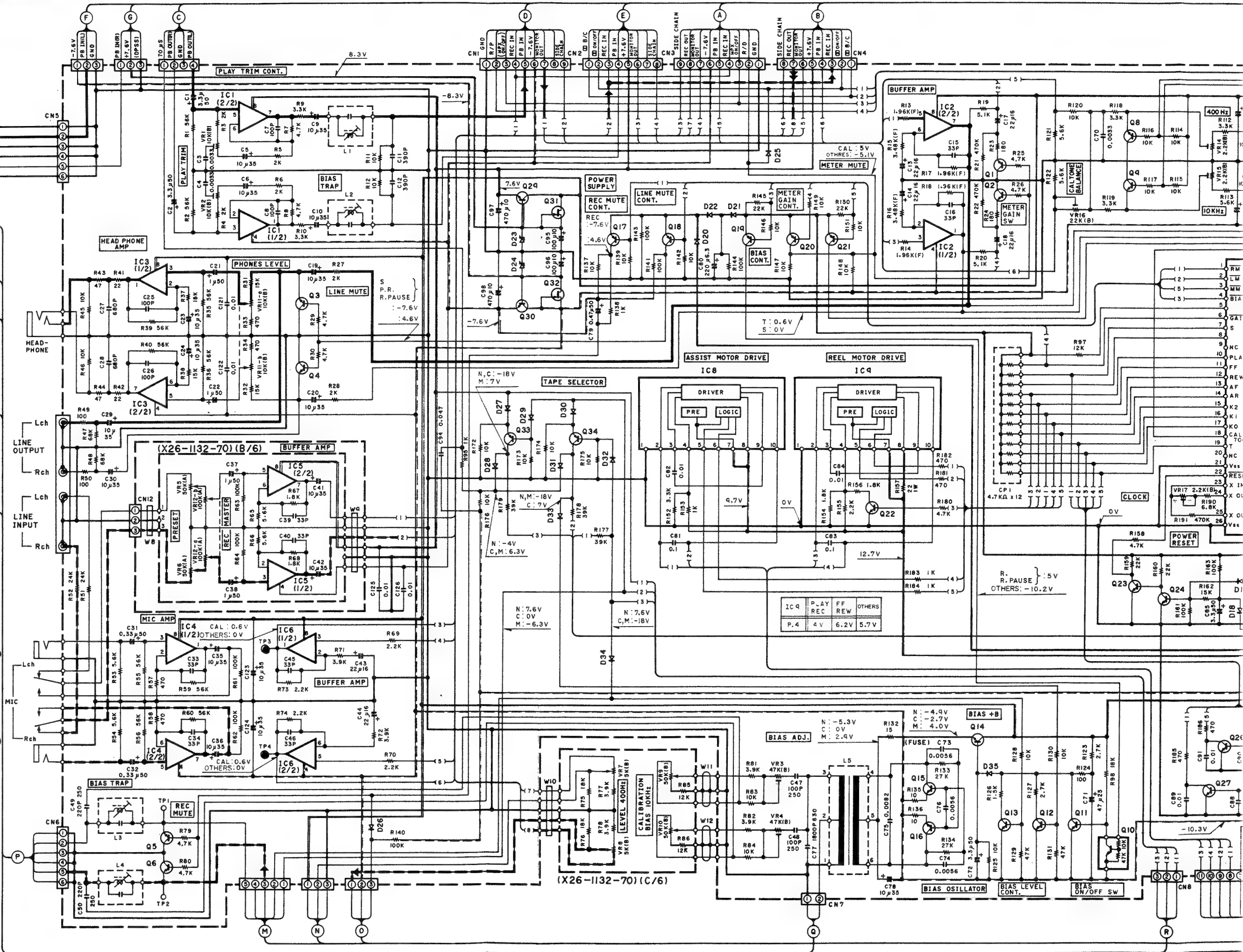
# MECHA ASS'Y



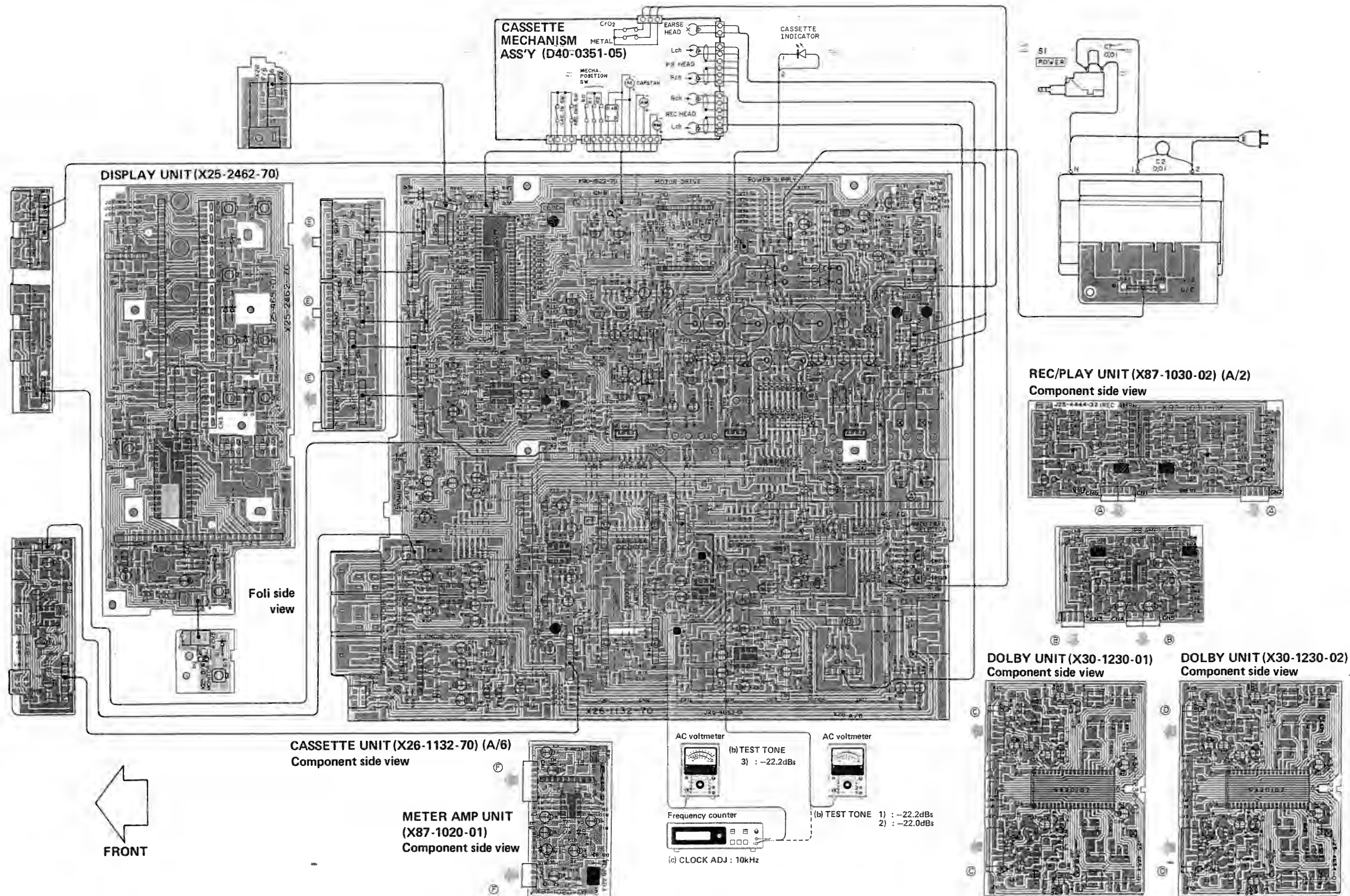
(X26-1132-70)  
 IC1,4,5: NJM4558D(A)  
 IC2,6,7: M5218P, AN6556  
 IC3: M5218L  
 IC8: BA6209  
 IC9: BA6224  
 IC10: M50757-400SP

Q1-6: 2SD1302(S)  
 Q7-9, 11-13, 22-27, 29, 40  
 : 2SC1740S(Q,R), 2SC945(A,I,Q,P)  
 or 2SC1685(R,S)  
 Q10: DTC114YFF  
 Q14-16, 28  
 : 2SD863(E,F), 2SC2060(Q,R)  
 Q17-21, 30, 33, 34, 41  
 : 2SA933S(Q,R), 2SA733(A),(Q,P)  
 or 2SA1127NC(R,S)  
 Q31, 32, 37, 38  
 : 2SK301R(S) or 2SK364(BL,V)  
 Q35: 2SD882\*(I,Q,P)  
 Q36, 42: 2SB772\*(I,Q,P)  
 Q39: 2SD1266(I,Q,P)

D1,2: ISS178  
 D3-6: GP20DL  
 D7,16: RD5.6E(B2)  
 D8: RD8.2E(B2)  
 D9,11: RD11E(B2)  
 D10,18,19, 25-35, 40-43  
 : ISS176  
 D12: RD3.9E(B)  
 D13,14: DSM1A1  
 D15,17: RD5.1E(B2)  
 D20-22, 36-39  
 : IS2076, ISS1555  
 D23,24: RD8.2J(B2)



KX-1100G KX-1100G





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Q	2A		N09-1233-08	SCREW (M2X4)		
69	1C		S46-1017-08	LEAF SWITCH		
70	1C		S46-1019-08	LEAF SWITCH		
71	2C		S46-1051-08	LEAF SWITCH		
75	2A	*	T32-0309-05	ERASE HEAD		
76	2A	*	T34-0314-05	REC/PLAY HEAD		
77	1B	*	T42-0017-08	DC MOTOR ASSY		
78	2A	*	T42-0088-08	DC MOTOR ASSY		
79	2B	*	T43-0048-08	DD MOTOR ASSY		

E: Scandinavia & Europe H:Audio Club K:USA P:Canada

T:England U:PX(Far East, Hawaii)

UE:AAFES(Europe) X:Australia M:Other Areas

△ indicates safety critical components.

# SPECIFICATIONS

Type .....	Front Loading 3 Heads Stereo Cassette Deck with Dolby B · C NR System
Track System .....	4-Track, 2-Channel Stereo/Mono, Recording/Playback
Recording System .....	AC Bias System (Bias Frequency: 105 kHz)
Erasing System .....	AC System
Tape Speed .....	4.76 cm/sec (1-7/8 ips)
Heads .....	Record / Playback Combination Head x1 (Amorphous Alloy) Erase Head x1 (Double Gap Ferrite)
Motors .....	Capstan Drive: FG Servo Direct Drive Motor Reel Drive: DC Motor Mechanism Drive: DC Motor
Fast Winding Time .....	Approx. 70 seconds with C-60 tape
Frequency Response:	
Normal Tape .....	20 Hz to 18,000 Hz, ±3 dB
CrO <sub>2</sub> Tape .....	20 Hz to 19,000 Hz, ±3 dB
Metal Tape .....	20 Hz to 22,000 Hz, ±3 dB
Signal to Noise Ratio:	
Dolby C Type NR ON .....	75 dB (Metal Tape)
Dolby B Type NR ON .....	68 dB (Metal Tape)
Dolby NR OFF .....	60 dB (Metal Tape)
Harmonic Distortion .....	Less than 0.4% (at 1 kHz, 0 VU with Metal Tape)
Wow and Flutter .....	0.025% (W.R.M.S.) 0.055% (DIN)
Input Sensitivity/Impedance:	
LINE x 2 .....	77.5 mV/50 kohm
Microphones x 2 .....	0.3 mV/600 ohm
Output Level/Load Impedance:	
LINE x 2 .....	0.49 V (0 VU)/2 kohms
Headphones x 1 .....	0.85 mW/8 ohms
Power Requirements .....	AC 120V, 60 Hz: U.S.A. and Canada Models AC 120 V/220-240 V (Switchable), 50/60 Hz: Other Countries
Power Consumption .....	35 watts
Dimensions .....	W: 440 mm (17-5/16") H: 111 mm (4-3/8") D: 322 mm (12-11/16")
Weight .....	6.2 kg (13.7 lb)
Supplied Accessories .....	Audio Connection Cables x 2
Reference Tapes .....	Normal: KENWOOD ND-60 CrO <sub>2</sub> : KENWOOD CD-60 Metal: KENWOOD MD-60

Kenwood follows a policy of continuous advancements in development.  
For this reason specifications may be changed without notice.  
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.  
Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

## Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

## KENWOOD CORPORATION

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TRIO-KENWOOD U.K. LTD.  
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KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.  
4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia

KENWOOD & LEE ELECTRONICS, LTD.  
Wang Kee Building, 5th Floor, 34-37, Connaught Road, Central, Hong Kong

# PARTS LIST

\* New Parts

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Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
REC/PLAY UNIT (X87-1030-02)						
C1	.2	*	CF92FV1H394J	MF	0.39UF	J
C3	.4		CE04KW1V100MEL	ELECTRØ	10UF	35WV
C5	.6		CC45FSL1H100D	CERAMIC	10PF	D
C7	.8		CF92FV1H122J	MF	1200PF	J
C9	.10		CF92FV1H823J	MF	0.082UF	J
C11	.12		CE04KW1V100MEL	ELECTRØ	10UF	35WV
C13	.14		CF92FV1H682J	MF	6800PF	J
C15	.16		CF92FV1H222J	MF	2200PF	J
C17	.18		CQ09FS1H101JZS	POLYSTY	100PF	J
C19	.20		CF92FV1H562J	MF	5600PF	J
C21	.22		CF92FV1H102J	MF	1000PF	J
C23	.24		CF92FV1H152J	MF	1500PF	J
C25	.26		CF92FV1H182J	MF	1800PF	J
C27	.28		CQ09FS1H221JZS	POLYSTY	220PF	J
C29	.32		CK45FF1H103Z	CERAMIC	0.010UF	Z
C33	.34		CE04KW1V100MEL	ELECTRØ	10UF	35WV
C35	.36	*	CQ09FS1H391JZS	POLYSTY	390PF	J
C37	.38	*	CE04KW1A221MEL	ELECTRØ	220UF	10WV
C39	.40		CC45FSL1H330J	CERAMIC	33PF	J
C41	.42		CF92FV1H153J	MF	0.015UF	J
C43	.44		CE04KW1H3R3MEL	ELECTRØ	3.3UF	50WV
C45	.46		CF92FV1H223J	MF	0.022UF	J
C47	.48		CF92FV1H122J	MF	1200PF	J
L1	.2		L40-2238-29	SMALL FIXED INDUCTØR(22MH,6)		
R5	.6	*	RN14BK2C6192FTS	RN	61.9K	F 1/6W
R7	.8	*	RN14BK2C1102FTS	RN	11.0K	F 1/6W
R11	.12	*	RN14BK2C2612FTS	RN	26.1K	F 1/6W
R25	.26	*	RN14BK2C1001FTS	RN	1.00K	F 1/6W
R29	.30	*	RN14BK2C5112FTS	RN	51.1K	F 1/6W
R31	.32	*	RN14BK2C1961FTS	RN	1.96K	F 1/6W
R41	.42	*	RN14BK2C1470FTS	RN	147.0	F 1/6W
R43	.44	*	RN14BK2C1963FTS	RN	196K	F 1/6W
R45	.46	*	RN14BK2C8251FTS	RN	8.25K	F 1/6W
VR1	.4		R12-3058-05	TRIMMING PØT. (20K)REC/PB,LVL		
D1	.2		15S176	DIØDE		
IC1		*	TX3010N	IC(REC AMP)		
IC2		*	M5220P	IC(OP AMP X2)		
Q1	.4		2SC1685(R,S)	TRANSISTØR		
Q1	.4		2SC1740S(Q,R)	TRANSISTØR		
Q1	.4		2SC945(A)(Q,P)	TRANSISTØR		
Q5	.6		2SC1685(R,S)	TRANSISTØR		
Q5	.6		2SC1740S(Q,R)	TRANSISTØR		
Q5	.6		2SC945(A)(Q,P)	TRANSISTØR		
CASSETTE MECHANISM ASS'Y (D40-0351-05)						
5	1C		D03-0251-08	REEL DISK ASSY		
6	1B		D10-0309-08	LEVER (REC)		
7	1B		D10-1614-08	LEVER		
8	2A		D10-1616-08	PINCH RØLLER ASSY (R)		
9	1A	*	D10-1617-08	LEVER		
10	1B	*	D10-1618-08	LEVER		
11	1A	*	D10-1619-08	LEVER		
12	2C	*	D10-1620-08	LEVER		

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13	1A	*	D10-1621-08	PINCH RØLLER ASSY (L)		
14	1B	*	D10-1622-08	SLIDER ASSY		
15	2C	*	D10-1623-08	SLIDER ASSY (BRAKE)		
16	1B		D13-0080-08	GEAR ASSY (CAM)		
17	1B	*	D15-0241-08	PULLEY ASSY		
18		*	D16-0128-08	BELT		
19	1A		D90-0012-04	STEEL BALL (Ø3)		
20	1B		D90-0020-04	STEEL BALL (Ø2)		
24	1B	*	F99-0026-08	TUBE		
28	1A		G01-0484-08	TØRSION CØIL SPRING		
29	2B		G01-1601-08	COMPRESSION CØIL SPRING (T)		
30	1C		G01-1602-08	COMPRESSION CØIL SPRING		
31	2A	*	G01-1816-08	COMPRESSION CØIL SPRING		
32	2B	*	G01-1817-08	COMPRESSION CØIL SPRING (S)		
33	2B	*	G01-1818-08	TENSION CØIL SPRING		
34	1B	*	G01-1819-08	TØRSION CØIL SPRING		
35	2A	*	G01-1820-08	TØRSION CØIL SPRING		
36	1A	*	G01-1821-08	TØRSION CØIL SPRING		
37	1B	*	G01-1822-08	TØRSION CØIL SPRING		
38	1B		G02-0387-08	FLAT SPRING (CASSETTE)		
39	1A	*	G02-0388-08	FLAT SPRING		
40	1C	*	G02-0389-08	FLAT SPRING		
44	1B		H12-0106-08	CARTON BOARD (LEAF SW)		
48	2C	*	J21-3786-08	MOUNTING HARDWARE (SW)		
49	2B	*	J21-3787-08	MOUNTING HARDWARE (MØTØR)		
50	1B	*	J21-3788-08	MOUNTING HARDWARE (B)		
51	1A	*	J21-3789-08	MOUNTING HARDWARE		
52	2A	*	J21-3790-08	MOUNTING HARDWARE		
53	2C		J31-0268-08	CØLLAR		
54	1A		J31-0269-08	CØLLAR		
55	1B	*	J31-0270-08	CØLLAR		
56	2C	*	J31-0271-08	CØLLAR		
57	2B	*	J42-0139-08	POWER CØRD BUSHING		
-			J61-0307-05	WIRE BAND		
			N24-3020-45	E TYPE RETAINING RING		
			N24-3025-45	E TYPE RETAINING RING		
			N24-3030-45	E TYPE RETAINING RING		
61	2A		N14-0142-08	NUT		
62	1C		N19-0336-08	FLAT WASHER		
63	1B	*	N19-0994-08	FLAT WASHER		
64	1B,2B	*	N19-0995-08	FLAT WASHER		
65	2C	*	N19-0996-08	FLAT WASHER		
D	1B		N09-1241-08	SCREW (M2X3)		
E	1C	*	N09-1593-08	SCREW (M2X5)		
F	1C	*	N09-1594-08	SCREW (M2X4)		
G	2A	*	N09-1596-08	SCREW		
H	1B		N09-1228-08	SCREW (M2.5X6)		
J	2C		N09-1240-08	SCREW (M2.5X4)		
K	1C		N09-1230-08	SCREW (M2.5X20)		
L	1B		N09-1456-08	SCREW (M2X3.2)		
N	2B		N09-1232-08	SCREW (M2.6X3)		
P	1A,1B		N09-1229-08	SCREW (M2.5X10)		

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D3 -6 D7 D8 D9 D10			GP20DL RD5.6E(B2) RD8.2E(B2) RD11E(B2) 1SS176	DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		
D11 D12 D13 ,14 D15 D16			RD11E(B2) RD3.9E(B) DSM1A1 RD5.1E(B2) RD5.6E(B2)	ZENER DIODE ZENER DIODE DIODE ZENER DIODE ZENER DIODE		
D17 D18 ,19 D20 -22 D20 -22 D23 ,24			RD5.1E(B2) 1SS176 1S1555 1S2076 RD8.2JS(B2)	ZENER DIODE DIODE DIODE DIODE ZENER DIODE		
D25 -35 D36 -39 D36 -39 D40 -43 IC1			1SS176 1S1555 1S2076 1SS176 NJM4558D(A)	DIODE DIODE DIODE DIODE IC(8P AMP X2)		
IC2 IC2 IC3 IC4 ,5 IC6 ,7			AN6556 MS218P MS218L NJM4558D(A) AN6556	IC(8P AMP X2) IC(8P AMP X2) IC(8P AMP X2) IC(8P AMP X2) IC(8P AMP X2)		
IC6 ,7 IC8 IC9 IC10 Q1 -6			MS218P BA6209 BA6229 MS0757-400SP 2SD1302(S)	IC(8P AMP X2) IC(MOTOR DRIVER) IC(MOTOR DRIVER) IC(MICROPROCESSOR) TRANSISTOR		
Q7 -9 Q7 -9 Q7 -9 Q10 Q11 -13			2SC1685(R,S) 2SC1740S(Q,R) 2SC945(A)(Q,P) DTC114YFF 2SC1685(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q11 -13 Q11 -13 Q14 -16 Q14 -16 Q17 -21			2SC1740S(Q,R) 2SC945(A)(Q,P) 2SC2060(Q,R) 2SD863(E,F) 2SA1127NC(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q17 -21 Q17 -21 Q22 -27 Q22 -27 Q22 -27			2SA733(A)(Q,P) 2SA933S(Q,R) 2SC1685(R,S) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q28 Q28 Q29 Q29 Q29			2SC2060(Q,R) 2SD863(E,F) 2SC1685(R,S) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q30 Q30 Q30 Q31 ,32 Q31 ,32			2SA1127NC(R,S) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SK163(N) 2SK363(V)	TRANSISTOR TRANSISTOR TRANSISTOR FET FET		

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Q31 ,32 Q33 ,34 Q33 ,34 Q33 ,34 Q35			2SK364(V) 2SA1127NC(R,S) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SD882*1(Q,P)	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q36 Q37 ,38 Q37 ,38 Q39 Q40			2SB772*1(Q,P) 2SK163(M,N) 2SK364(BL,V) 2SD1266(Q,P) 2SC1685(R,S)	TRANSISTOR FET FET TRANSISTOR TRANSISTOR		
Q40 Q40 Q41 Q41 Q41 Q42			2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA1127NC(R,S) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SB772*1(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
DOLBY UNIT (X30-1230-01,-02)						
C3 ,4 C9 ,10 C11 ,12 C13 ,14 C15 ,16		*	CE04KW1H2R2MEL CF92FV1H472J CF92FV1H474J CF92FV1H154J CF92FV1H153J	ELECTOR 2.2UF 50WV MF 4700PF J MF 0.47UF J MF 0.15UF J MF 0.015UF J		
C17 ,18 C19 ,20 C21 ,22 C23 ,24 C25 ,26			CF92FV1H224J CF92FV1H683J CF92FV1H473J CF92FV1H682J CF92FV1H103J	MF 0.22UF J MF 0.068UF J MF 0.047UF J MF 6800PF J MF 0.010UF J		
C27 ,28 C29 ,30 C31 ,32 C33 ,34			CE04KW1V100MEL CF92FV1H152J CF92FV1H122J CE04KW1A470MEL	ELECTOR 10UF 35WV MF 1500PF J MF 1200PF J ELECTOR 47UF 10WV		
L1 ,2 L3 ,4			L79-0189-05 L39-0108-05	LC FILTER TRAP COIL		
R17 ,18 R19 ,20 R34		*	RN148K2C6811F RN148K2C6810F RN148K2C1003F	RN 6.81K F 1/6W RN 681.0 F 1/6W RN 100K F 1/6W		
IC1 Q1 -4 Q1 -4		*	CX20187 2SC1740S(Q,R) 2SC945(A)(Q,P)	IC(DOLBY B/C NOISE REDUCT X2) TRANSISTOR TRANSISTOR		
METER AMP UNIT (X87-1020-01)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8			CE04KW1V100M CE04KW1H2R2M CE04KW1H010M CE04KW1C330M	ELECTOR 10UF 35WV ELECTOR 2.2UF 50WV ELECTOR 1.0UF 50WV ELECTOR 33UF 16WV		
VR1			R12-3057-05	TRIMMING PNT. (10K) 8DB ADJ		
D1 -6 IC1 IC2 IC2 IC2 Q1		*	1SS176 BA6138 AN6556 MS218P NJM4558D DTC114YFF	DIODE IC(ROST AMP X2) IC(8P AMP X2) IC(8P AMP X2) IC(8P AMP X2) DIGITAL TRANSISTOR		

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C15, .16 C17, .18 C19, .20 C21, .22 C23, .24			CC45FSL1H181J CE04KW1C220M CE04KW1V100M CE04KW1H010M CE04KW1V100M	CERAMIC 180PF J ELECTR8 22UF 16WV ELECTR8 10UF 35WV ELECTR8 1.0UF 50WV ELECTR8 10UF 35WV		
C25, .26 C27, .28 C29, .30 C31, .32 C33, .34			CC45FSL1H101J CK45FB1H681K CE04KW1V100M CE04KW1HR33M CC45FSL1H330J	CERAMIC 100PF J CERAMIC 680PF K ELECTR8 10UF 35WV ELECTR8 0.33UF 50WV CERAMIC 33PF J		
C35, .36 C37, .38 C39, .40 C41, .42 C43, .44			CE04KW1V100M CE04KW1H010M CC45FSL1H330J CE04KW1V100M CE04KW1C220M	ELECTR8 10UF 35WV ELECTR8 1.0UF 50WV CERAMIC 33PF J ELECTR8 10UF 35WV ELECTR8 22UF 16WV		
C45, .46 C47, .48 C49, .50 C60 C61		*	CC45FSL1H330J C91-0355-05 C91-0359-05 CC45FSL1H101J CE04KW1HR33M	CERAMIC 33PF J POLYSTY 100PF J POLYSTY 220PF J CERAMIC 100PF J ELECTR8 0.33UF 50WV		
C62 C63 C64 C65 C66			CF92FV1H563J CF92FV1H222J CF92FV1H103J CQ09FS1H331J CF92FV1H184J	MF 0.056UF J MF 2200PF J MF 0.010UF J POLYSTY 330PF J MF 0.18UF J		
C67 C68, .69 C70 C71 C72			CF92FV1H682J CE04KW1V100M CF92FV1H332J CE04KW1E470M CE04KW1H3R3M	MF 6800PF J ELECTR8 10UF 35WV MF 3300PF J ELECTR8 47UF 25WV ELECTR8 3.3UF 50WV		
C73, .74 C75 C76 C77 C78			CF92FV1H562J CF92FV1H822J CF92FV1H562J C91-0776-05 CE04KW1V100M	MF 5600PF J MF 8200PF J MF 5600PF J POLYPR8 1800PF J ELECTR8 10UF 35WV		
C79 C80 C81 C82 C83			CE04KW1HR47M CE04KW0J221M C91-0700-05 CK45FF1H103Z C91-0700-05	ELECTR8 0.47UF 50WV ELECTR8 220UF 6.3WV CERAMIC 0.1UF J CERAMIC 0.010UF Z CERAMIC 0.1UF J		
C84 C85 C86 C87 C88, -91			CK45FF1H103Z CE04KW1H3R3M CE04KW1V4R7M CE04KW1HR47M CK45FF1H103Z	CERAMIC 0.010UF Z ELECTR8 3.3UF 50WV ELECTR8 4.7UF 35WV ELECTR8 0.47UF 50WV CERAMIC 0.010UF Z		
C92 C93 C94 C95, .96 C97, .98		*	CE04KW1V100M CE04KW1A101M CK45FF1H473Z CE04KW1A101M CE04KW1A471M	ELECTR8 10UF 35WV ELECTR8 100UF 10WV CERAMIC 0.047UF Z ELECTR8 100UF 10WV ELECTR8 470UF 10WV		
C99 C100, .101 C102 C103 C104, .105			CE04KW1H010M CE04KW1H0R1M CE04KW1H010M CE04KW1V100M CE04KW1E470M	ELECTR8 1.0UF 50WV ELECTR8 0.1UF 50WV ELECTR8 1.0UF 50WV ELECTR8 10UF 35WV ELECTR8 47UF 25WV		

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C106 C107 C108 C109 C110			CE04KW1H010M CE04KW1A101M CE04KW1E221M CE04KW1H221M CE04KW1E331M	ELECTR8 1.0UF 50WV ELECTR8 100UF 10WV ELECTR8 220UF 25WV ELECTR8 220UF 50WV ELECTR8 330UF 25WV		
C111, .112 C113-116 C117 C118 C119-122		*	CE04KW1C471M CE04KW1C101M CE04KW1E472M CE04KW1E222M CK45FF1H103Z	ELECTR8 470UF 16WV ELECTR8 100UF 16WV ELECTR8 4700UF 25WV ELECTR8 2200UF 25WV CERAMIC 0.010UF Z		
C123, .124 C125, .126 C127, .128 C129			CE04KW1V100M CK45FF1H103Z CE04KW1V100M CE04KW1V220M	ELECTR8 10UF 35WV CERAMIC 0.010UF Z ELECTR8 10UF 35WV ELECTR8 22UF 35WV		
265 269 270 271	2E 2E 2F 2D		E11-0104-15 E11-0151-05 E13-0499-05 E23-0125-05	PHONE JACK (3P) HEAD PHONE PHONE JACK (2P) MIC PHONE JACK (4P) TERMINAL		
L1 -4 L5		*	L39-0107-05 L32-0323-05	TRAP COIL BIAS OSCILLATING COIL		
Z	2F		ND9-0295-05	HEXAGON HEAD BOLT(M3X8,+)		
CP1 CP2 CP3 R13, .14 R15, .16		*	R90-0452-05 R90-0233-05 R90-0178-05 RN14BK2C1961F5 RN14BK2C3481F5	MULTIPLE RESISTOR MULTI-COMP 10KX4 J 1/6W MULTI-COMP 470PX4 RN 1.96K F 1/6W RN 3.48K F 1/6W		
R17, .18 R132 R157 R167 R170		*	RN14BK2C1961F5 R92-0206-05 RS14KB3A220J RS14KB3A102J RS14KB3A470J	RN 1.96K F 1/6W FUSE RESIST 15 G 1/4W FL-PR88F RS 22 J 1W FL-PR88F RS 1.0K J 1W FL-PR88F RS 47 J 1W		
R224 R229 R231 R232 R233			RS14KB3A102J RS14KB3A182J RS14KB3A102J RS14KB3A331J RS14KB3D150J	FL-PR88F RS 1.0K J 1W FL-PR88F RS 1.8K J 1W FL-PR88F RS 1.0K J 1W FL-PR88F RS 330 J 1W FL-PR88F RS 15 J 2W		
R235, .236 R237 R238 VR1, .2 VR3, .4			RS14KB3D221J RD14AB2E560J RS14KB3A102J R12-3096-05 R12-3099-05	FL-PR88F RS 220 J 2W FL-PR88F RD 56 J 1/4W FL-PR88F RS 1.0K J 1W TRIMMING P8T. (10K) PLAY TRIM TRIMMING P8T. (47K) BIAS ADJ		
VR5, .6 VR7, .8 VR9, .10 VR11 VR12	2E 2E 2E 2F 2E	*	R01-4032-05 R01-2020-05 R01-4033-05 R10-3023-05 R10-5020-05	POTENTIOMETER(50K) PRESET POTENTIOMETER(5K) LEVEL POTENTIOMETER BIAS POTENTIOMETER(10KX2) PHONES LVL POTENTIOMETER(100KX2) MSTR REC		
VR13 VR14, .15 VR16 VR17			R12-1066-05 R12-1067-05 R12-3097-05 R12-1067-05	TRIMMING P8T. (1K) MSTR BAL TRIMMING P8T. (2.2K) CAL TONE TRIMMING P8T. (22K) CAL TONE BAL TRIMMING P8T. (2.2K) CLOCK ADJ		
S1	2D		S31-2062-15	SLIDE SWITCH (TIMER)		
D1, .2			1SS178	DIODE		

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KX-1100G						
201	1D		A01-1348-02	METALLIC CABINET	KPME T	
202	2D	*	A20-4586-03	PANEL ASSY		
202	2D	*	A20-4634-03	PANEL ASSY		
203	2D	*	A53-0781-03	CASSETTE LID		
204	1E	*	A53-0764-03	CASSETTE HOLDER ASSY		
207	1E	*	B03-1891-03	DRESSING PLATE	K P E	
208	2D	*	B07-1411-02	ESCUTCHEON (LVL MTR, DISP)		
-			B46-0092-03	WARRANTY CARD		
-			B46-0121-03	WARRANTY CARD		
-			B46-0122-13	WARRANTY CARD		
-			B46-0123-03	WARRANTY CARD	T	
-		*	B50-5932-00	INSTRUCTION MANUAL (ENGLISH)	KPME	
-		*	B50-5933-00	INSTRUCTION MANUAL (FRENCH)	PME	
-		*	B50-5934-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B50-5936-00	INSTRUCTION MANUAL (ENGLISH)	T	
-		*	B50-5937-00	INSTRUCTION MANUAL (G,D,I)	E	
-			B58-0269-04	CAUTION CARD	K	
D1	1E		B30-0740-05	LED(SLF-201C)		
Δ C1	2		C91-0023-05	CERAMIC 0.01UF AC250V	M	
Δ C1	2		C91-0647-05	CERAMIC 0.01UF P	KPTE	
Δ 213	1E	*	D10-1510-04	LEVER	ME	
Δ 214	1E		D39-0172-05	DAMPER ASSY		
Δ 217	1E	*	E03-0102-25	AC INLET		
Δ 218	1E		E30-0505-05	AUDIO CORD		
Δ 219	1F		E30-0181-05	AC POWER CORD	K	
Δ 219	1F		E30-0780-05	AC POWER CORD	P	
Δ 219	1F		E30-1416-05	AC POWER CORD	T	
Δ 220	1E		E30-1305-15	AC POWER CORD (INLET)	M	
Δ 220	1E		E30-1329-05	AC POWER CORD (INLET)	E	
223	1E	*	G01-1741-04	TORSION COIL SPRING(LEVER)	KPME T	
224	1E	*	G01-1742-04	TORSION COIL SPRING		
-		*	H01-5681-04	ITEM CARTON CASE		
-		*	H01-5682-04	ITEM CARTON CASE		
-		*	H10-1827-02	POLYSTYRENE FOAMED FIXTURE	M	
-		*	H10-1828-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H20-0417-04	PROTECTION COVER(460X370X360)		
-			H25-0224-04	PROTECTION BAG (800X400)		
-			H25-0232-04	PROTECTION BAG (235X350)	KPTE	
229	2E, 2F		J02-0156-05	FOOT (Ø40X12.5)		
230	2F		J19-2536-05	UNIT HOLDER		
231	1F	*	J19-2572-04	UNIT HOLDER		
232	2E		J21-3326-05	JACK MOUNTING HARDWARE		
233	1E	*	J21-3650-03	MOUNTING HARDWARE (L)	KPT	
Δ 234	1E	*	J21-3651-03	MOUNTING HARDWARE (R)		
235	1F		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
239	2D		K27-1082-04	KNØB (BUTTON) POWER		
240	2D	*	K27-1594-04	KNØB (LEVER) CALIBN MODE		
241	2E	*	K27-1524-04	KNØB (BUTTON) DØLBY		
242	2E	*	K27-1525-04	KNØB (BUTTON) COUNTER RESET		

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243	2D		K29-1822-04	KN0B (MASTER REC LVL		
244	2D		K29-1863-04	KN0B (BUTTON) PLAY		
245	2D		K29-1865-04	KN0B (BUTTON) FF		
246	2D		K29-1866-04	KN0B (BUTTON) REW		
247	2E		K29-1890-04	KN0B (BUTTON) REC		
248	2E		K29-1891-04	KN0B (BUTTON) PAUSE		
249	2D		K29-2000-04	KN0B (PRESET)		
250	2D	*	K29-2200-04	KN0B (BUTTON) EJECT		
251	2D	*	K29-2201-04	KN0B (BIAS,PHONE,LVL		
252	2E	*	K29-2202-04	KN0B (BUTTON) STOP		
253	2D	*	K29-2203-04	KN0B (BUTTON) MPX,MONITOR		
257	1E	*	L01-6864-05	POWER TRANSFORMER		
261	1E		N19-0880-04	FLAT WASHER (LEVER)		
B	2F		N09-0292-05	STEPPED SCREW (3X19) GND		
S	2D		N09-1445-05	SET SCREW (M3X8)		
S1	1E		S40-1066-05	PUSH SWITCH (POWER TYPE)		
75	2A		T32-0309-05	ERASE HEAD		
76	2A		T34-0314-05	RECORD/PLAYBACK HEAD		
DISPLAY UNIT (X25-2462-70)						
D12	1D		B30-1012-05	LED(SLP-981C-50)	TAPE	
C1			CE04KW1V100M	ELECTR0 10UF 35WV		
C2			CF92FV1H104J	MF 0.10UF J		
C3			CF92FV1H473J	MF 0.047UF J		
C4			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
CP1			R90-0426-05	MULTI-COMP 100KX6 J 1/6W		
R14			RS14KB3A151J	FL-PR88F RS 150 J 1W		
S1 -7	1D		S40-1064-05	PUSH SWITCH		
S8 ,9	1D		S40-2330-05	PUSH SWITCH (D0LBY NR)		
S10	1D		S31-2097-05	SLIDE SWITCH (CALIBN MODE)		
S11 -13	1D		S40-1064-05	PUSH SWITCH (COUNT,MPX,MONITOR		
D1 -11			1S1555	DIODE		
D1 -11			1S2076	DIODE		
FL1	1D		6-8T-33ZK	FLUORESCENT INDICATOR TUBE		
FL2	1D		B6-251ZK	FLUORESCENT INDICATOR TUBE		
IC1			AN6870N	IC(18PT LED LEVEL METER DR X2)		
Q1 ,2			2SC1685(R,S)	TRANSISTOR		
Q1 ,2			2SC1740S(Q,R)	TRANSISTOR		
Q1 ,2			2SC945(A)(Q,P)	TRANSISTOR		
Q3			2SA1127NC(R,S)	TRANSISTOR		
Q3			2SA733(A)(Q,P)	TRANSISTOR		
Q3			2SA933S(Q,R)	TRANSISTOR		
Q4			DTC114YFF	DIGITAL TRANSISTOR		
CASSETTE UNIT (X26-1132-70)						
C1 ,2			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		
C3 ,4			CF92FV1H332J	MF 3300PF J		
C5 ,6			CE04KW1V100M	ELECTR0 10UF 35WV		
C7 ,8			CC45FSL1H101J	CERAMIC 100PF J		
C9 ,10			CE04KW1V100M	ELECTR0 10UF 35WV		
C11 ,12			CD09FS1H391J	POLYSTY 390PF J		
C13 ,14			CE04KW1C220M	ELECTR0 22UF 16WV		

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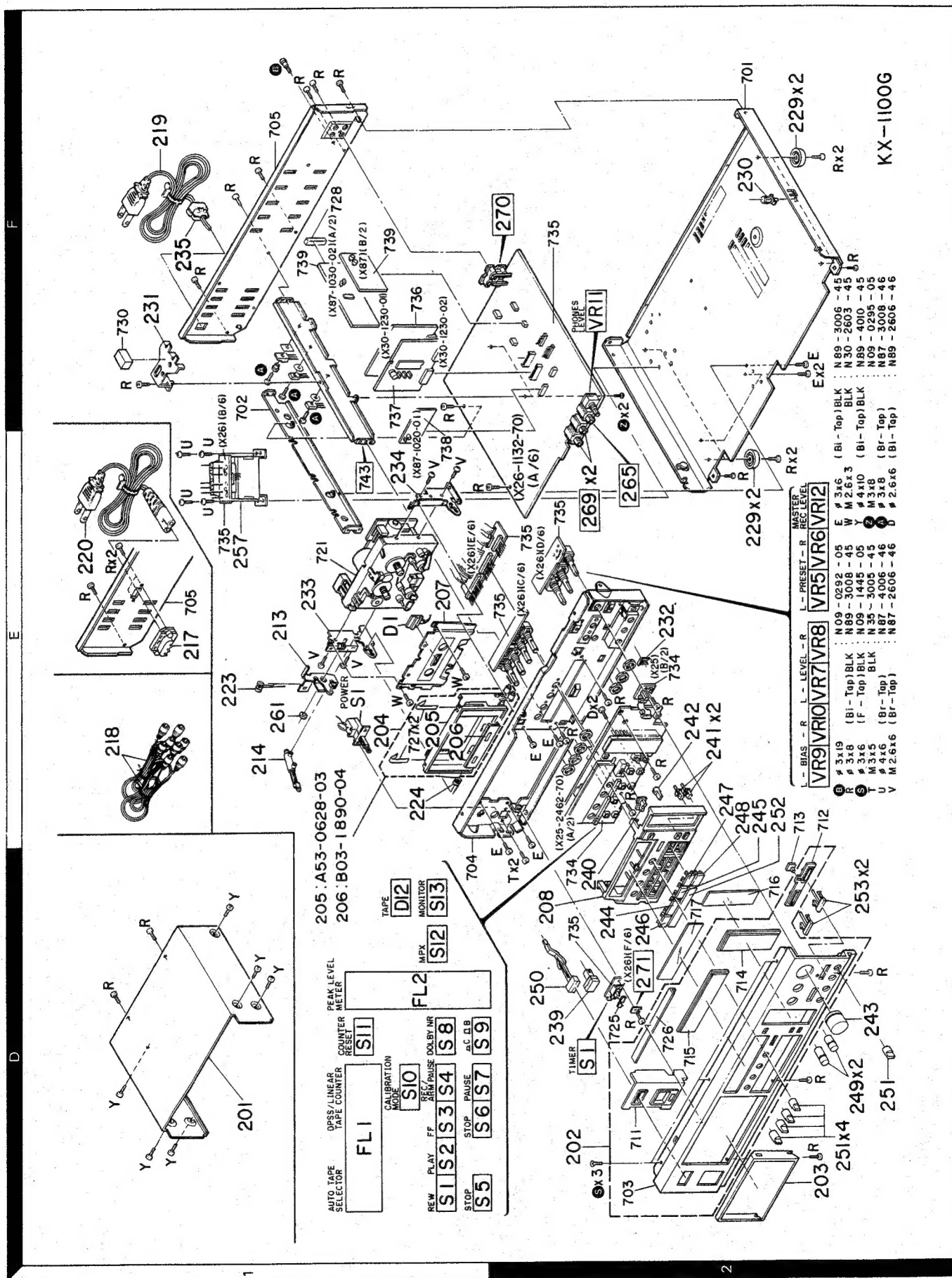
P: Canada

T: England U: PX(Far East, Hawaii)

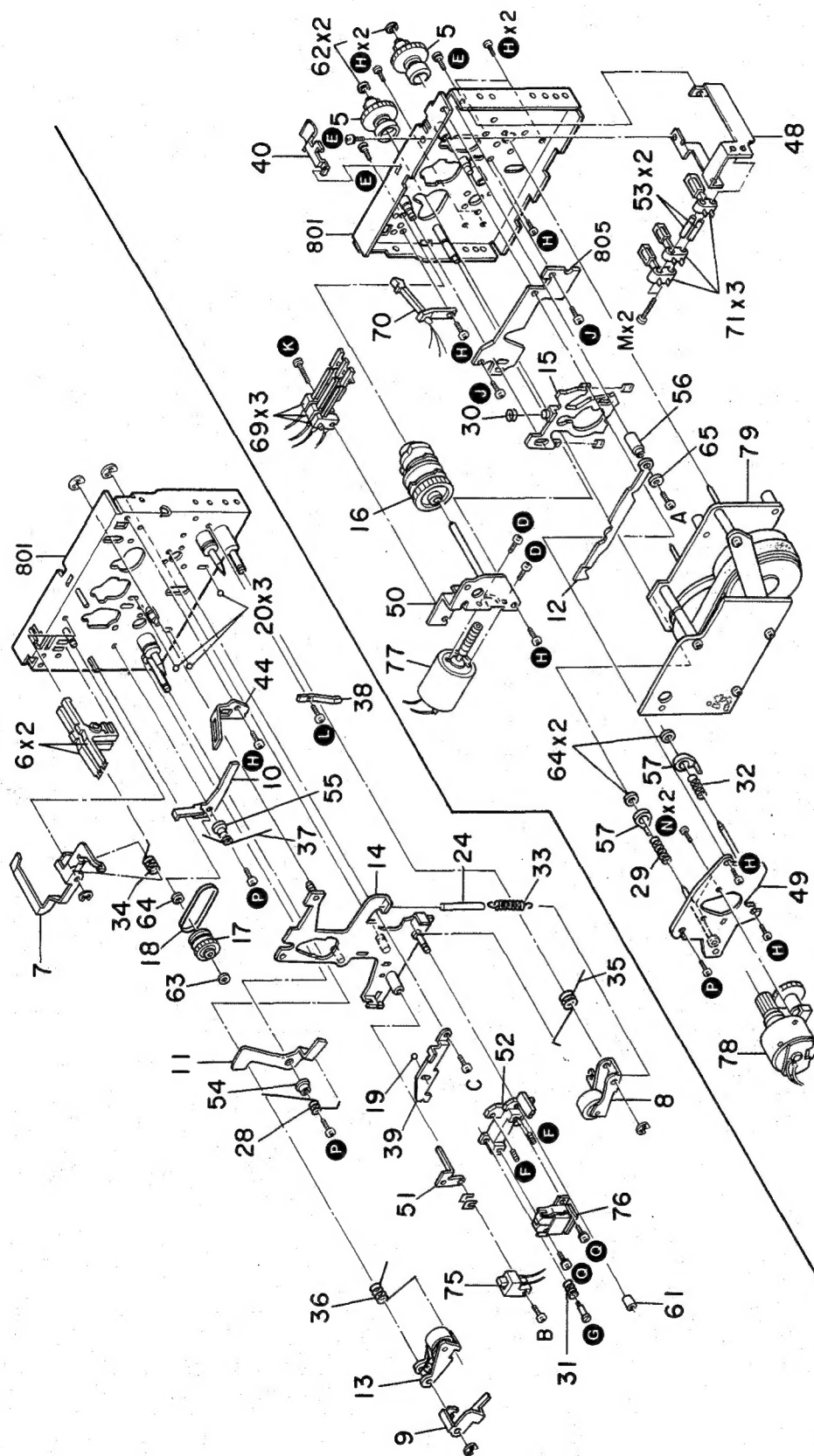
UE: AAFES(Europe) X: Australia M: Other Areas

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### EXPLODED VIEW(UNIT)



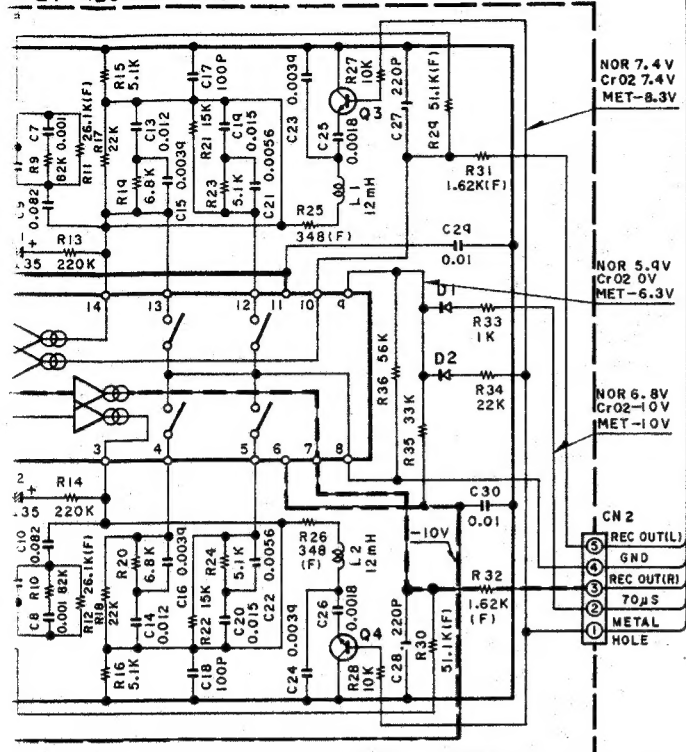
### EXPLODED VIEW(MECHANISM)



KX-1100G

- |   |          |                    |   |          |                    |
|---|----------|--------------------|---|----------|--------------------|
| A | Ø 2.6x12 | : N 30 - 2612 - 46 | J | M 2.5x4  | : N 09 - 1240 - 08 |
| B | M 2x12   | : N 35 - 2012 - 46 | K | M 2.5x20 | : N 09 - 1230 - 08 |
| C | M 3x4    | : N 84 - 3004 - 46 | L | M 2x3.2  | : N 09 - 1456 - 08 |
| D | M 2x3    | : N 09 - 1241 - 08 | M | M 2x30   | : N 30 - 2030 - 46 |
| E | M 2x5    | : N 09 - 1593 - 08 | N | M 2.6x3  | : N 09 - 1232 - 08 |
| F | M 2x4    | : N 09 - 1594 - 08 | P | M 2.5x10 | : N 09 - 1229 - 08 |
| G |          | : N 09 - 1596 - 08 | Q | M 2x4    | : N 09 - 1233 - 08 |
| H | M 2.5x6  | : N 09 - 1228 - 08 |   |          |                    |

## A/2) REC AMP UNIT

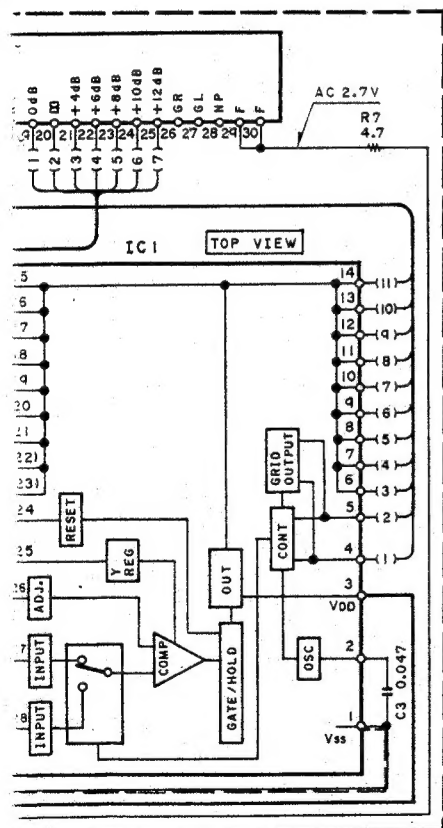


(X87-1030-02)(A/2)

IC1 : TX3010N

Q1~4 : 2SC1740S(Q,R), 2SC945(A)(Q,P)  
or 2SC1685(R,S)

DI,2 : ISS176



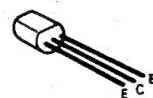
(X25-2462-70)(B/2)

(R) IC1 : AN6870N

(R) DI~II : IS2076 or IS1555

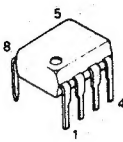
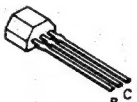
2SA1127NC  
2SA733  
2SC1685  
2SC2060  
2SC945  
2SD1302  
2SD863

DTC114YFF



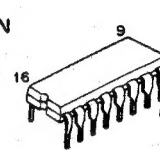
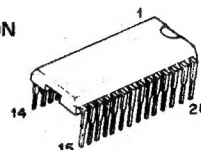
2SA933S  
2SC1740S

NJM4558D



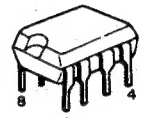
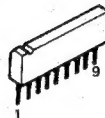
AN6870N

TX3010N



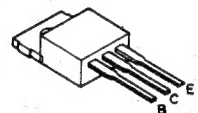
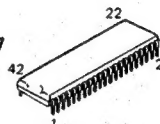
BA6138

AN6556  
M5218P  
M5220P

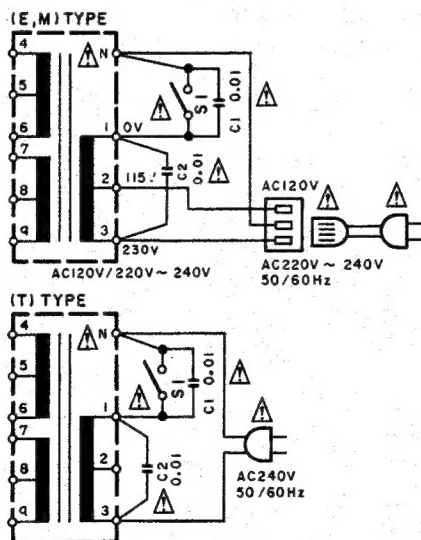


CX20187

2SD1266



- DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les tensions c.c. du circuit de polarité doivent être mesurées. L'appareil étant en mode d'enregistrement.
- Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KX-1100G

KENWOOD

KX-1100G (K)(2/2)